

PRELIMINARY ASSESSMENT

PA

MAGNUM SALVAGE/HORIZON VEHICLES

ORD981767478

1052 GOLDFISH FARM ROAD

ALBANY, OREGON 97321

FEBRUARY 8, 1988

Prepared for: U.S. Environmental Protection Agency
Region 10
Superfund Program Management Section
Seattle, Washington 98101

Prepared by: Oregon Department of Environmental
Remedial Action Section
Portland, Oregon 97204-1334

USEPA SF



1636735

Magnum Salvage/Horizon Vehicles
ORD981767478

INTRODUCTION

Pursuant to Cooperative Agreement V000332-01, Amendment 2 between the U.S. Environmental Protection Agency (EPA) and the Oregon Department of Environmental Quality (DEQ), the DEQ conducted a Preliminary Assessment (PA) of the site known as Magnum Salvage/Horizon Vehicles.

PAs are intended generally to identify potential hazards at a site, identify sites that require emergency action, and to establish priorities for sites requiring in-depth investigations (Site Inspections). The PA is based on readily available information about the site and is not a full investigation or characterization of the site.

The Magnum Salvage/Horizon Vehicles PA was conducted to identify potential public health and/or environmental threats related to the site. The PA is based on data derived from the sources listed in "J" below. Information gathered during the PA is summarized in the attached EPA form 2070-12, as attachment 1.

A. GENERAL SITE DATA

Site Name: Magnum Salvage/Horizon Vehicles

Location: 1052 Goldfish Farm Road
Albany, OR 97321

Owner: Floyd W. Zumwalt
(b)(6)
Albany, OR 97321
(503) 967-1098

Operator: same as above

B. SITE DESCRIPTION

The site is located southeast of the City of Albany Airport (Township 11S, Range 3W, Sections 9 and 10). The site is relatively flat with a slope less than 3 percent. It is currently inactive with an old house in front next to the road and a building for an office and shop in back. The wrecking yard is behind the office building and several old cars, batteries, and auto parts can be found in the yard. The tax lot the facility is on is 14 acres and goes back some distance from the road. Adjacent to the property is a new building that is probably part of the plans for the Babe the Blue Ox recreational vehicle park that has been under construction since at least 1986. There is not a continuous fence around the

Magnum Salvage/Horizon Vehicles
ORD981767478

property. A new fence is being built along the north side of the property.

Mr. Zumwalt, the current owner, plans to operate an auto dismantling business at the site. A location map can be found in Attachment 2.

C. OWNERSHIP INFORMATION

The property was owned by Burt Moss from 1947 to 1977. In 1977 the property was sold to Howard Price and Mr. Anderson. On October 24, 1985 Roberta Hess purchased the property. The Small Business Administration is currently foreclosing on the property in order to complete a contract sale to Floyd Zumwalt (1). No operators, in addition to the owners listed above, have been discovered for the site.

D. WASTE AND CONTAMINANT TYPES, QUANTITIES AND CHARACTERISTICS

Potential wastes from auto wrecking operations and salvaging of transformers at the facility include the following:

1. PCBs - transformer oil spills
2. Organic solvents - possibly used in metal recovery
3. Phenols - associated with PCBs
4. 1,2-dichlorobenzene - associated with PCBs
5. Bis-2-ethyl hexyl phthalate - associated with PCBs
6. Furans - associated with PCBs
7. Dioxins - associated with PCBs

These activities occurred over many years with no documentation complicating the determination of quantities of waste, if any, potentially present at the site.

PCB contaminated oils are common on sites associated with the reclamation and salvaging of transformers. They are persistent and non-biodegradable. They exhibit both acute and chronic toxic effects primarily through the dermal, inhalation, and ingestion pathways of exposure. PCBs are suspect human carcinogens with the liver as the target organ. Furans and dioxins can be found in some PCBs and can be produced during the incomplete combustion of PCBs. These chemical substances are highly toxic and persistent compounds. (2)

E. SITE HISTORY AND POTENTIAL PROBLEMS

The site has been used for salvaging of auto parts for over 30 years. Burt Moss operated Burt's Auto Wrecking from 1947 to 1977. During that time it has been alleged that transformer salvaging for copper wire was performed for several years in the late 1960s and perhaps early 1970s. The transformers were allegedly obtained from

the power company. The oil from the transformers may have been disposed of on site, placed in engines of cars on site and possibly used for lubrication. Oil accumulated in the area where the salvaging occurred such that oil was continuously present. These activities took place primarily on the north side of the wrecking yard about half way back into the wrecking yard from the office building. The transformers were stored out on a palette although there was not a large accumulation at any one time. (3) (Attachment 3)

In 1977 A & P Auto Wrecking started operation at the site. Howard Price and a Mr. Anderson obtained a small business loan for this business. Transformer salvaging was allegedly not performed during that time. It is not known what specific auto wrecking activities occurred at the site during that time. (1)

In 1985 Roberta Hess purchased the property also for salvaging use. It is also not known what specific type of salvaging occurred during that time. (1)

The salvaging operations at the facility have not been active for up to two years (3). Floyd Zumwalt plans to start an auto dismantling business at the property in the near future.

In 1986, a new water system was installed about 200 feet from the site for Babe the Blue Ox RV Park. Concern regarding potential releases from the historical salvaging activities resulted in sampling of the well for PCBs and volatile organics. Neither PCBs or volatile organics were detected in the samples. (Attachment 4)

F. PHYSICAL AND DEMOGRAPHIC INFORMATION

The City of Albany provides water service to Albany residents. The estimated population for Albany is 10,000. The City obtains water from the Santiam River via an 11 mile channel from Lebanon. The City service does not extend out to the subject site. It extends as far as Albany Airport and there are service lines along Knox Butte Road and Santiam Highway but not as far as Goldfish Farm Road. (4)

The only source of water currently for activities east of the City service area is ground water. In addition, some Albany residents continue to use ground water although City water is available. The City performed a study of the area north of Knox Butte and east of the service area for ground water use as a major source of water for residential and farm use. The wells in that area have good well volume. (4)

There are approximately 773 wells within four miles of the site. Eighty-five percent (660) of the wells are used for drinking water and ten percent (83) are used for irrigation. Thirty-two of the

irrigation wells were drilled before 1954. Three wells are listed for municipal use. The domestic well total suggests that the population within four miles is at least 2,508. Wells can be found within 2000 feet of the site.

Many wells in the area are relatively shallow drawing water from less than 50 feet below ground surface. Some well logs suggest that ground water can be found as little as ten feet below the surface. The well installed in 1986 for the Babe the Blue Ox RV Park was drilled to 138 feet. Water is withdrawn from 120 feet and below. Several layers of sand, silt, gravel, and clay were penetrated during the drilling suggesting that there may be as many as three confined aquifers at this location (Attachment 4).

Other well logs also suggest that there are several alternating clay layers in the subsurface soils which may create confined aquifers. Many of the wells show some artesian pressure with the static water level higher than the level at which the first water was found.

During a site visit to the property in January 1988 it was observed that recently created fence post holes at the site showed standing water at less than 2 feet from the ground surface suggesting that water does not migrate rapidly through the subsurface soils. The clay soils may be creating a very shallow aquifer or a perched ground water zone.

Cox Creek passes within 1000 feet of the site. Cox Creek is intermittent above the site and appears to become perennial where the Creek crosses Goldfish Farm Road. "General drainage in the area is to Timber-Linn Lake which is used for recreational purposes, the most famous of which is the annual Albany Timber Carnival which includes log rolling." Timber-Linn Lake is less than a half mile from the site. Timber-Linn Lake drains to Swan Lakes and Waverly Lake eventually draining into the Willamette River, approximately two miles from the site. All three lakes have been used to stock game and non-game fish. Oregon Fish and Wildlife stocks Timber-Linn Lake with trout, bass, and crappies in late April. No known sensitive species have been identified in the area (6).

Precipitation in the area ranges from 40 to 60 inches per year.

G. CONTAMINANT MOBILIZATION, PATHWAYS, AND RISK

Soils contaminated with PCBs may be present at the subject site. PCBs are virutally insoluble in water, are strongly absorbed on soil particles, and thus, do not easily leach from soil (7). PCB migration through the ground water is not expected to be significant.

The primary pathways of concern are dermal contact through contaminated soils and exposure through off-site migration. Off-site migration of PCBs via surface runoff may have occurred in the past due to the high annual precipitation rates and the amount of oil that was allegedly present on the site. If contaminated soils are present on-site or off-site, direct contact is possible as access to the site is not controlled by a fence.

Any solvents that may have been used during the salvaging activities at the site have not been specifically identified. It is therefore, difficult to assess the potential for mobilization and transport.

H. PRIORITY ASSESSMENT

It is recommended that the Magnum Salvage/Horizon Vehicles site be investigated under a medium priority site inspection for the following reasons:

1. PCB contamination from the transformer salvaging operations may exist at the site and has not been assessed previously.
2. Drainage in the area and high precipitation suggests that runoff from these operations may have occurred.
3. Ground water is shallow in the area and is used for domestic purposes.
4. The ground water sampling already performed was for only one well installed at the RV park, may not be representative of a downgradient well and is probably drawing from a deeper aquifer than some of the other wells in the area.

I. FOLLOW-UP RECOMMENDATIONS

The site inspection should include consideration of both on-site and off-site soil and ground water contamination from the salvaging operations.

J. REFERENCES

1. Sisemore, Jan, Loan Officer, Small Business Administration, Portland, telephone conversation with Deborah Bailey, January 21, 1988.
2. Sax, N.I. and R.J. Lewis, Dangerous Properties of Industrial Materials, Sixth Edition, Van Nostrand Reinhold Company, New York, 1984.

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3. Porter, Bill, City of Albany Fire Department, telephone conversation with Deborah Bailey, January 26, 1988
4. Zumwalt, Floyd, property owner, telephone conversation with Deborah Bailey, January 20, 1988
5. Milbrat, Jennifer, Engineering Technician, City of Albany, telephone conversation with Deborah Bailey, December 29, 1987
6. Hunt, Wayne, Fisheries Biologist, Oregon Fish and Wildlife, Northwest Region, Salem Office, conversation with Deborah Bailey, January 25, 1988
7. USEPA, Ambient Water Quality Criteria for Polychlorinated Biphenyls, EPA 440/5-80-068, October 1980.

- ATTACHMENT 1: EPA Form 2070-12 "Preliminary Hazardous Waste Site, Preliminary Assessment"
- ATTACHMENT 2: Excerpt from Oregon State Highway Division Map for Albany and Vicinity, January 1982
- ATTACHMENT 3: Letter from Bill Porter of the City of Albany Fire Department to Dale Wulffenstein of DEQ, dated October 14, 1986 regarding possible PCB contamination at 1052 Goldfish Farm Road and a memorandum from D.S. Wulffenstein to Ron Culver, EPA-000, dated October 15, 1986.
- ATTACHMENT 4: Department of Environmental Quality "Request for Analysis" form and data sheets for the Babe the Blue Ox RV Park well, dated January 9, 1987
- ATTACHMENT 5: Memorandum from Ron Culver, EPA-Oregon Operations Office to Chip Humphrey, EPA-Oregon Operations Office, regarding A & P Auto Wrecking dated October 28, 1986
- ATTACHMENT 6: Telephone conversation logs prepared during preparation of the preliminary assessment
- ATTACHMENT 7: Well logs for T11S R3W Sections 9 and 10

ATTACHMENT 1



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
OR D981767478

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Magnum Salvage/Horizon Vehicles		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 1052 Goldfish Farm Road			
03 CITY Albany	04 STATE OR	05 ZIP CODE 97321	06 COUNTY Linn	07 COUNTY CODE 043	08 CONG DIST 05
09 COORDINATES LATITUDE 44 38 06.0		LONGITUDE 123 02 50.0		T11S R3W Section 9,10	
10 DIRECTIONS TO SITE (Starting from nearest public road) Take I-5 south to Knox Butte Road exit. Turn right on to Knox Butte Road. Turn right onto Goldfish Farm Road.					

III. RESPONSIBLE PARTIES

01 OWNER (If known) Floyd Zumwalt		02 STREET (Business, mailing, residential) 4269 Santiam Highway			
03 CITY Albany	04 STATE OR	05 ZIP CODE 97321	06 TELEPHONE NUMBER 503 967-1098		
07 OPERATOR (If known and different from owner) Floyd Zumwalt		08 STREET (Business, mailing, residential) 1052 Goldfish Farm Road			
09 CITY Albany	10 STATE OR	11 ZIP CODE 97321	12 TELEPHONE NUMBER 503 967-1098		
13 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL: _____ (Agency name) <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER: _____ (Specify) <input type="checkbox"/> G. UNKNOWN					
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply) <input type="checkbox"/> A. RCRA 3001 DATE RECEIVED: ____/____/____ MONTH DAY YEAR <input type="checkbox"/> B. UNCONTROLLED WASTE SITE (RCRA 103 d) DATE RECEIVED: ____/____/____ MONTH DAY YEAR <input type="checkbox"/> C. NONE					

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES DATE 1 25 88 MONTH DAY YEAR <input type="checkbox"/> NO		BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input checked="" type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ (Specify) CONTRACTOR NAME(S): _____			
02 SITE STATUS (Check one) <input type="checkbox"/> A. ACTIVE <input checked="" type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		03 YEARS OF OPERATION BEGINNING YEAR 1947 ENDING YEAR 1985(?) <input type="checkbox"/> UNKNOWN			
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED Alleged PCB transformer salvage operations at site. Potential for PCBs, related organic chemical compounds and spent solvents.					

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

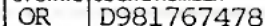
Potential for soil, groundwater and surface water contamination from transformer salvage and wrecking operations.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents) <input type="checkbox"/> A. HIGH (Inspection required promptly) <input checked="" type="checkbox"/> B. MEDIUM (Inspection required) <input type="checkbox"/> C. LOW (Inspect on time available basis) <input type="checkbox"/> D. NONE (No further action needed, complete current disposition form)			
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VI. INFORMATION AVAILABLE FROM

01 CONTACT Christy Smith		02 OF (Agency/Organization) DEQ Remedial Action		03 TELEPHONE NUMBER (503) 229-6790	
04 PERSON RESPONSIBLE FOR ASSESSMENT Deborah Bailey		05 AGENCY DEQ	06 ORGANIZATION Remedial Action	07 TELEPHONE NUMBER 503 229-6811	08 DATE 1 29 88 MONTH DAY YEAR



- ☐ I. HIGHLY VOLATILE
- ☐ J. EXPLOSIVE
- ☐ K. REACTIVE
- ☐ L. INCOMPATIBLE
- ☐ M. NOT APPLICABLE

EPA FORM 2070-12 (7-81)



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE OR 02 SITE NUMBER
D981767478

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: <2,500 04 NARRATIVE DESCRIPTION

Groundwater contamination is possible but unlikely as PCBs do not migrate readily. Clay soils may also be acting as barriers to migration.

01 ☒ B. SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Runoff of contaminated surface water may have occurred. Cox Creek is within 1000 feet of the site. A drainage ditch exits the site along Goldfish Farm Road joining Cox Creek to the north.

01 ☐ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

No known or suspected.

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

No known or suspected.

01 ☒ E. DIRECT CONTACT 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: unknown 04 NARRATIVE DESCRIPTION

Soils contaminated with PCBs and spent solvents may be present on site.

01 ☒ F. CONTAMINATION OF SOIL 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 10 (Acres) 04 NARRATIVE DESCRIPTION

Soils contaminated by PCBs and spent solvents may be present on site.

01 ☒ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: <2,500 04 NARRATIVE DESCRIPTION

See A. above.

01 ☐ H. WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Soils contaminated by PCBs and spent solvents may be present on site. However, the exposure potential is zero because the facility is not in operation currently. This may change in the near future.

01 ☒ I. POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

The site is not fenced and off-site migration may have occurred.



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
OR D981767478

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

None observed.

01 ☐ K. DAMAGE TO FAUNA

04 NARRATIVE DESCRIPTION (include name(s) of species)

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

No known or suspected.

01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

No known or suspected.

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES
(Spills/runoff/standing liquids/leaking drums)

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☒ ALLEGED

04 NARRATIVE DESCRIPTION

Transformer salvaging involved spillage of transformer oils onto ground.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

No known or suspected.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

No known or suspected.

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☒ ALLEGED

Transformers salvaged at site from 1960s to early 1970s.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: 2,500

IV. COMMENTS

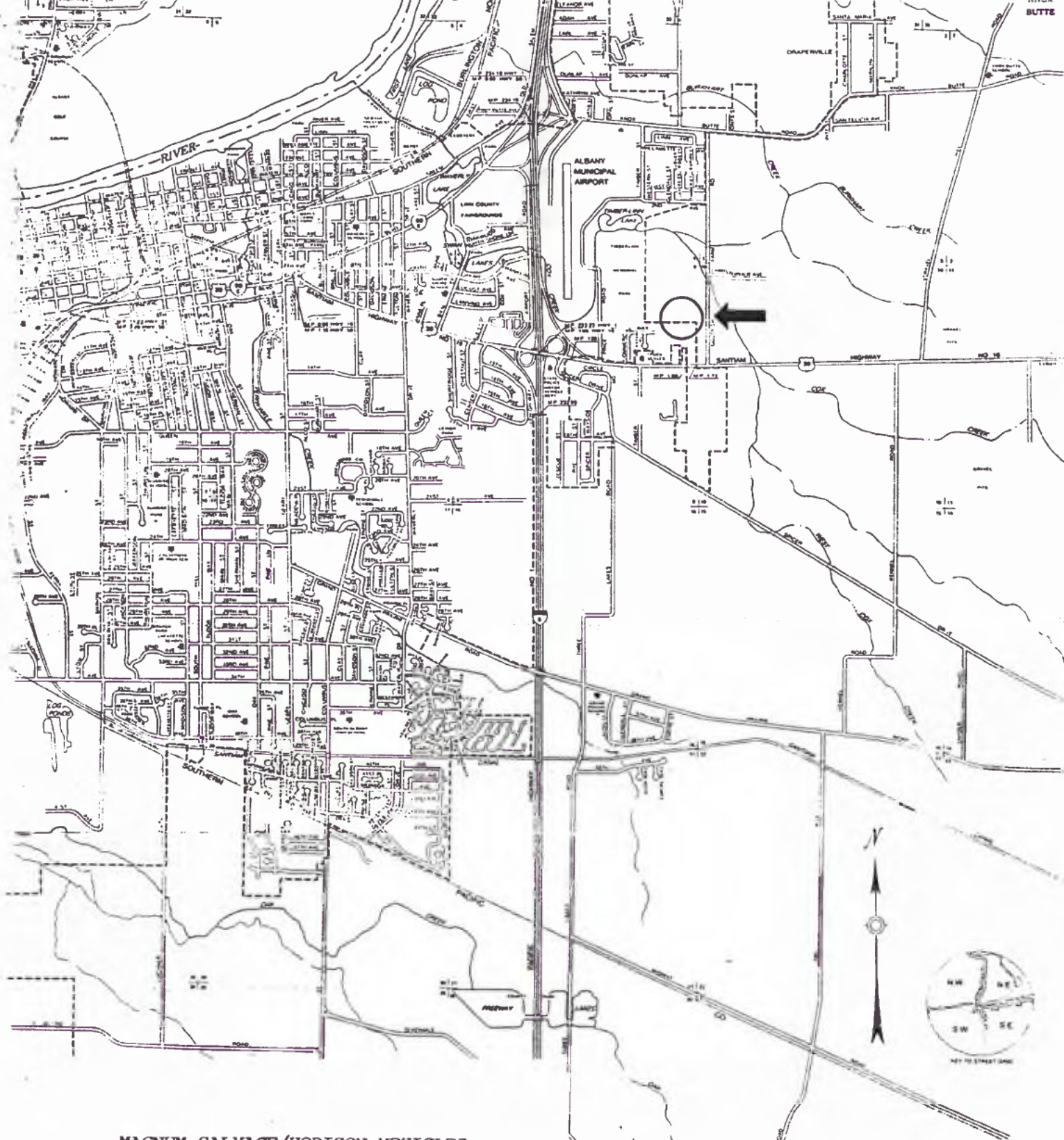
V. SOURCES OF INFORMATION (Cite specific references, e. g., state files, sample analysis, reports)

DEQ files: CERCLIS

U.S.G.S. topo map Albany Quad, 15 minute series

USEPA, Ambient Water Quality Criteria for Polychlorinated Biphenyls, October 1980

ATTACHMENT 2



MAGNUM SALVAGE/HORIZON VEHICLES

SITE LOCATION MAP

ALBANY
AND VICINITY

LINN COUNTY, OREGON
Population 27,000

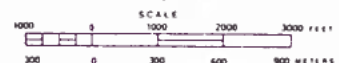
PREPARED BY THE
OREGON STATE HIGHWAY DIVISION
IN COOPERATION WITH THE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
January 1982

T 10-11 S R 3-4 W WM

1:50,000

- INTERSTATE NUMBERS PLATES
- U.S. NUMBERED ROUTE
- STATE NUMBERED ROUTE
- TERMINATION OF PG. SYSTEM
- SHORTEST HIGHWAY
- STREET OPEN FOR TRAVEL
- POST OFFICE
- SCHOOL
- CITY
- CITY LIMITS
- PUBLIC BUILDING
- CITY HALL
- CITY MALL
- AMPHITHEATRE



ATTACHMENT 3



CITY OF ALBANY
FIRE DEPARTMENT



October 14, 1986

Hazardous & Solid Waste Division
Dept. of Environmental Quality
RECEIVED
JAN 27 1988

Remedial Action Section

Dale Wulffenstein
Dept. of Environmental Quality
895 Summer St. NE
Salem, OR 97310

RE: Possible PCB contamination at 1052 Goldfish Farm Road

Dear Dale:

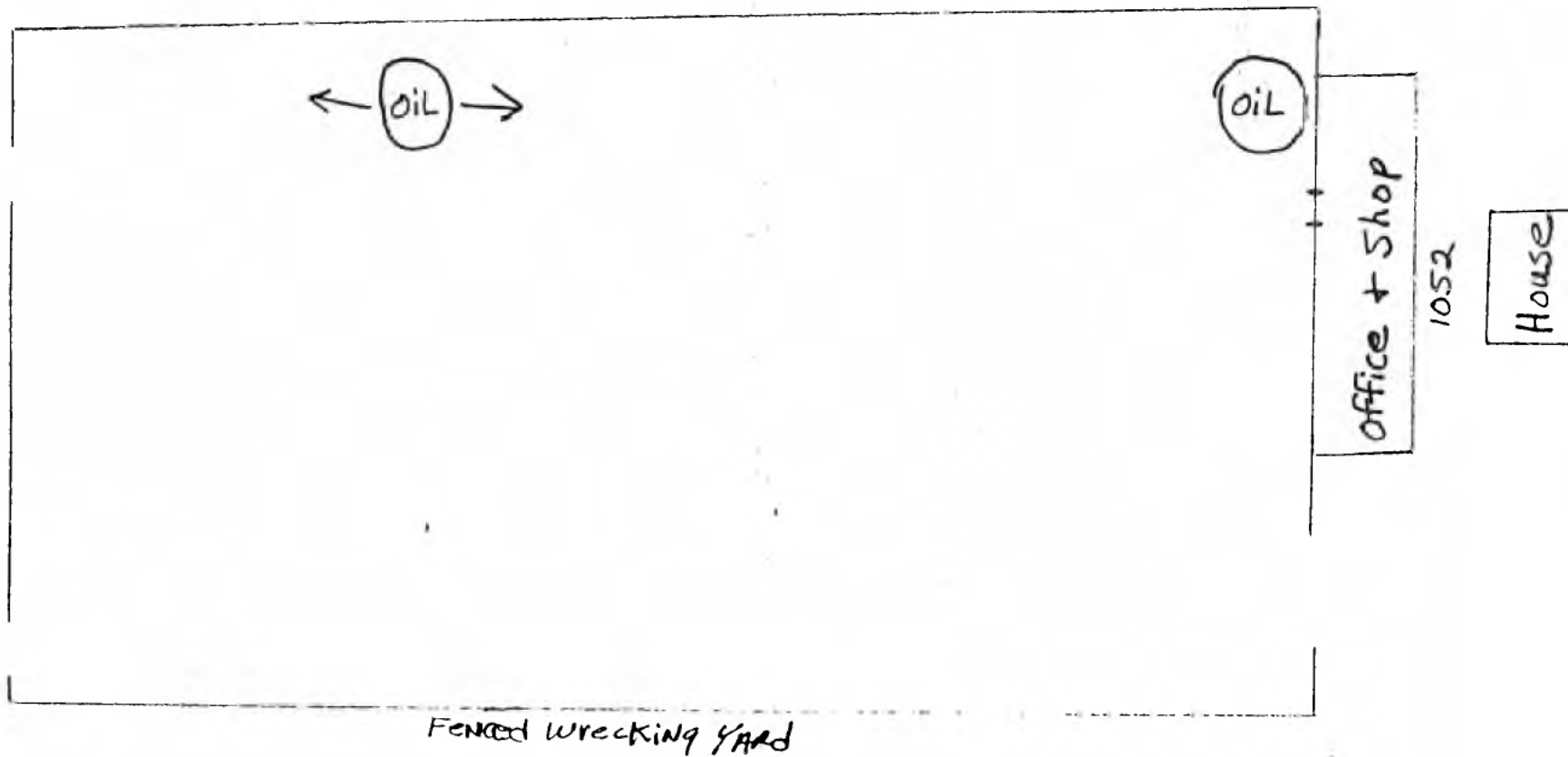
In response to our phone conversation yesterday, I am enclosing a sketch which shows the approximate locations where power transformers were stored and/or dismantled. The area at the rear of the fenced yard (west end) is only an approximation. I recall this area to be just before the ground level tapers off into a low area that gets marshy during wet weather.

The practice of dismantling transformers for the wire windings was discontinued sometime in the 1970's. It is very possible that the oil removed from the transformers was used on the site after the dismantling was discontinued.

Sincerely,

Bill Porter

al
Enclosure



Goldfish Farm Road N.E

A+P Auto Wrecking
1052 Goldfish Farm Rd NE
Albany, OR



STATE OF OREGON

INTEROFFICE MEMO

CH CHcc
10/20/86

TO: Ron Culver, EPA Portland

DATE: October 15, 1986

FROM: DSWulffenstein via DSt. Louis, WVR, Salem
cc: Al Goodman,
Haz. & Solid Waste

SUBJECT: Possible Linn County PCB Site

On October 13, 1986, I received a call from Jim Mackey, Albany Fire Marshall, regarding a possible PCB contaminated site near Albany. He indicated that one of his firemen had approached him with information of a transformer salvage operation at an auto wrecking yard several years ago. The fireman had observed transformers being torn apart, for the copper wire, within the wrecking yard and there was always an accumulation of oil in the area.

Recently construction has begun on an RV park adjacent to the wrecking yard. A drinking water well has been drilled and the fireman is concerned that there may be a chance of contamination.

As best as he can remember the salvage operation was active from the mid 1960's until 1975, when yard was purchased by the current owner. Now called A & P Auto Wrecking (1052 Goldfish Farm Rd., Albany), the current owner has never salvaged any transformers. The previous owner/operator was a Burt Moss, who stayed in the Albany area after sale of the yard. However, a check of the phone book failed to show a number for him.

Since there are no current salvage operations or ongoing spills of transformer oil at this site, I believe it inappropriate for this office to handle this case and am forwarding this information for your follow up/action. I have contacted the City of Albany with this information and suggested they arrange to have the well tested prior to allowing the RV park to opening to the public (park is within the City limits. Wrecking yard is not).

I have also contacted P P & L as a possible source of the transformers. They are checking into old records to see if any transformers were sold to this source. Unfortunately most of this activity occurred prior to the PCB publicity and they kept very few records for more than 5 years at that time. I will let you know if anything comes in from them.

If you have any additional questions please give me a call at 378-8240, Salem.


DSW/fh

RECEIVED

OCT 17 1986

OREGON OPERATIONS OFFICE
EPA REGION 10

ATTACHMENT 4

RECEIVED JAN 26 1987

DEPARTMENT OF ENVIRONMENTAL QUALITY
Request for AnalysisLaboratory No. 86-1054Location/Site: BABE THE BLUE
EX RV PARKDate: 12-16-86Date Received Lab: DEC 17 1986Collected By: TOM CHARBONNEAU Program: OHIO 3256HDate Reported: JAN 9 1987Purpose: loss groundwater contamination from
transformer dismantlingReport Data To: DAVE LELAND CSI

Comments:

lab prepared

* Basic (P) unpreserved; Nutrient (R) add H_2SO_4 in field; Metals (Tn) HNO_3 added in lab--don't rinse; Organic(X) mason jar

Item No.	Sampling Point Description (include time)	*Sample Container (bottle) #'s			Test Required
		Nutrients Basic	DO BOD	Metals Organic	
1	WELLHEAD 11:15 am after 15 min pumping # B0836			B0836	Purgables # B C 836
2	WELLHEAD 12:20 pm after 1 hr 20 pumping # B0749			B0749	Purgables # B C 749
28	WELLHEAD 12:22 pm Mason Jar			X806	PCB's
4					
5					
6					

Hazardous & Solid Waste Division
Dept. of Environmental QualityRECEIVED
DEC 22 1987

Remedial Action Section

FIELD SERVICES
DRINKING WATER SECTIONRECEIVED
JAN 14 1987

Laboratory comments

DATE: 03 JAN 87

LAB #: 86-1064

ITEM #: 3

SAMPLE: X806

PCB'S
COMPLIES WITH NPDES METHOD 608 AND
RCRA METHOD 8080

AMOUNT	PARAMETER
NG/L	

<0.005	PCB GROUP 1
<0.002	PCB GROUP 2
<0.001	PCB GROUP 3
<0.001	PCB GROUP 4
<0.001	PCB GROUP 5
g	TOTAL PCB

PCB GROUP 1 INCLUDES PCB 1221 AND IS
CALCULATED AS 1221.

PCB GROUP 2 INCLUDES PCB 1232 AND IS
CALCULATED AS 1232.

PCB GROUP 3 INCLUDES PCB'S 1216, 1242,
AND 1248 AND IS CALCULATED AS
1242.

PCB GROUP 4 INCLUDES PCB 1254 AND IS
CALCULATED AS 1254.

PCB GROUP 5 INCLUDES PCB'S 1260 AND 1262
AND IS CALCULATED AS 1260.

DH

26 DEC 86

GC/MS SCAN ID

86-1064 B0749

THE WATER SAMPLE WAS PURGED AND TRAPPED AND ANALYZED BY GC/MS. IN ADDITION TO THE VOLATILE ORGANIC CONTAMINANTS, THE SAMPLE WAS SCANNED FOR ANY OTHER ORGANIC COMPOUNDS ABOVE THE DETECTION LIMIT OF .01 MG/L. NO UNKNOWN WERE IDENTIFIED ABOVE THAT DETECTION LIMIT.

GC/MS VOLATILE ORGANICS

COMPLIES WITH EPA METHOD 624
AND RCRA METHOD 8240

DATE: 26 DEC 86

LAB #: 86-1064

SAMPLE: 00749

ITEM #: 2

AMOUNT MG/L	PARAMETER	CAS REGISTRY NUMBER	STORET NO.
<.001	CHLOROMETHANE	74-87-3	34418
<.001	BROMOMETHANE	74-83-9	34413
<.001	VINYL CHLORIDE	75-01-4	39175
<.001	CHLOROETHANE	75-00-3	34311
<.001	METHYLENE CHLORIDE	75-09-2	34423
<.001	TRICHLOROFLUOROMETHANE	75-69-4	34488
<.001	1,1-DICHLOROETHYLENE	75-35-4	34501
<.001	1,1-DICHLOROETHANE	75-34-3	34531
<.001	TRANS-1,2-DICHLOROETHYLENE	156-60-5	34546
<.001	CHLOROFORM	67-66-3	32106
<.001	1,2-DICHLOROETHANE	107-06-2	34531
<.001	1,1,1-TRICHLOROETHANE	71-55-6	34506
<.001	CARBON TETRACHLORIDE	56-23-5	32102
<.001	BROMODICHLOROMETHANE	75-27-4	32101
<.001	1,2-DICHLOROPROPANE	78-07-5	34541
<.001	CIS-1,3-DICHLOROPROPENE	10061-01-5	34704
<.001	TRICHLOROETHYLENE	79-01-6	39190
<.001	BENZENE	71-43-2	34030
<.001	DIBROMOCHLOROMETHANE	124-40-1	32105
<.001	1,1,2-TRICHLOROETHANE	79-00-5	34511
<.001	TRANS-1,3-DICHLOROPROPENE	10061-02-6	34699
<.001	1,2-DIBROMOETHANE (EDB)	106-93-4	
<.001	2-CHLOROETHYL VINYL ETHER	110-75-8	34576
<.001	BROMOFORM	75-25-2	32104
<.001	1,1,2,2-TETRACHLOROETHANE	79-34-5	34516
<.001	1,1,2,2-TETRACHLOROETHYLENE	127-18-4	34475
<.001	TOLUENE	108-88-3	34010
<.001	CHLOROBENZENE	108-90-7	34301
<.001	ETHYLBENZENE	100-41-4	34371
<.001	1,3-DICHLOROBENZENE	541-73-1	34566
<.001	1,2-DICHLOROBENZENE	95-50-1	34536
<.001	1,4-DICHLOROBENZENE	106-46-7	34571

DH

GC/MS SCAN ID

26 DEC 86

86-1064 B0836

THE WATER SAMPLE WAS PURGED AND TRAPPED AND ANALYZED BY GC/MS. IN ADDITION TO THE VOLATILE ORGANIC CONTAMINANTS, THE SAMPLE WAS SCANNED FOR ANY OTHER ORGANIC COMPOUNDS ABOVE THE DETECTION LIMIT OF .01 MG/L. NO UNKNOWN WERE IDENTIFIED ABOVE THAT DETECTION LIMIT.

GC/MS VOLATILE ORGANICS

COMPLIES WITH EPA METHOD 624
AND RCRA METHOD 8240

DATE: 26 DEC 86

LAB #: 86-1864

SAMPLE: B0936

ITEM #: 1

AMOUNT MG/L	PARAMETER	CAS REGISTRY NUMBER	STORET NO.
<.001	CHLOROMETHANE	74-87-3	34418
<.001	BROMOMETHANE	74-83-9	34413
<.001	VINYL CHLORIDE	75-01-4	39175
<.001	CHLOROETHANE	75-00-3	34311
<.001	METHYLENE CHLORIDE	75-09-2	34423
<.001	TRICHLOROFLUOROMETHANE	75-69-4	34488
<.001	1,1-DICHLOROETHYLENE	75-35-4	34501
<.001	1,1-DICHLOROETHANE	75-34-3	34531
<.001	TRANS-1,2-DICHLOROETHYLENE	156-60-5	34546
<.001	CHLOROFORM	67-66-3	32106
<.001	1,2-DICHLOROETHANE	127-96-2	34531
<.001	1,1,1-TRICHLOROETHANE	71-55-6	34506
<.001	CARBON TETRACHLORIDE	56-23-5	32102
<.001	BROMODICHLOROMETHANE	75-27-4	32101
<.001	1,2-DICHLOROPROPANE	78-07-5	34541
<.001	CIS-1,3-DICHLOROPROPENE	18061-01-5	34724
<.001	TRICHLOROETHYLENE	79-01-6	39100
<.001	BENZENE	71-43-2	34930
<.001	DIBROMOCHLOROMETHANE	124-48-1	32105
<.001	1,1,2-TRICHLOROETHANE	79-00-5	34511
<.001	TRANS-1,3-DICHLOROPROPENE	18061-02-6	34699
<.001	1,2-DIBROMOETHANE (EDB)	106-93-4	
<.001	2-CHLOROETHYL VINYL ETHER	110-75-8	34576
<.001	BROMOFORM	75-25-2	32104
<.001	1,1,2,2-TETRACHLOROETHANE	79-34-5	34516
<.001	1,1,2,2-TETRACHLOROETHYLENE	127-18-4	34475
<.001	TOLUENE	100-98-3	34010
<.001	CHLOROBENZENE	100-90-7	34301
<.001	ETHYLBENZENE	100-41-4	34371
<.001	1,3-DICHLOROBENZENE	541-73-1	34566
<.001	1,2-DICHLOROBENZENE	95-50-1	34526
<.001	1,4-DICHLOROBENZENE	106-46-7	34571

ATTACHMENT 5



STATE OF OREGON

INTEROFFICE MEMO

REC 97
NCH

cc
10/20/86

TO: Ron Culver, EPA Portland

DATE: October 15, 1986

FROM: DSWulfenstein via DSt. Louis,
WVK, Salemcc: Al Goodman,
Haz. & Solid Waste

SUBJECT: Possible Linn County PCB Site

A & P Auto Wrecking → CH
Site discovery needed

On October 13, 1986, I received a call from Jim Mackey, Albany Fire Marshall, regarding a possible PCB contaminated site near Albany. He indicated that one of his firemen had approached him with information of a transformer salvage operation at an auto wrecking yard several years ago. The fireman had observed transformers being torn apart, for the copper wire, within the wrecking yard and there was always an accumulation of oil in the area.

Recently construction has begun on an RV park adjacent to the wrecking yard. A drinking water well has been drilled and the fireman is concerned that there may be a chance of contamination.

As best as he can remember the salvage operation was active from the mid 1960's until 1975, when yard was purchased by the current owner. Now called A & P Auto Wrecking (1052 Goldfish Farm Rd., Albany), the current owner has never salvaged any transformers. The previous owner/operator was a Burt Moss, who stayed in the Albany area after sale of the yard. However, a check of the phone book failed to show a number for him.

Since there are no current salvage operations or ongoing spills of transformer oil at this site, I believe it inappropriate for this office to handle this case and am forwarding this information for your follow up/action. I have contacted the City of Albany with this information and suggested they arrange to have the well tested prior to allowing the RV park to opening to the public (park is within the City limits. Wrecking yard is not).

I have also contacted P P & L as a possible source of the transformers. They are checking into old records to see if any transformers were sold to this source. Unfortunately most of this activity occurred prior to the PCB publicity and they kept very few records for more than 5 years at that time. I will let you know if anything comes in from them.

If you have any additional questions please give me a call at 378-8240, Salem.


DSW/Fh

RECEIVED
OCT 17 1986

OREGON DEPARTMENT OF
LPA REGISTRATION

ATTACHMENT 6

FILE: Magnum
Salvage

Department of Environmental Quality
Remedial Action SECTION

Phone Memo

Date: 1/25/88 Time: 10:00
Call From/To: Wayne Hunt
Title: Fisheries Biologist
Company: Oregon Fish & Wildlife
Location: WW Region - Salem Office
Phone No.: 378-6925

RE: Sensitive Species in Area

cc: _____

Summary of Call:

Not aware of any sensitive species in area
Stock lakes along Cox Creek in late April
Most recently, only Timber-Linn Lake stocked
with Trout, Bass, Crappies
Susan Lake is a private lake stocked
with game and non-game fish

FILE: Magnum
Salvage

Department of Environmental Quality
Remedial Action SECTION

Phone Memo

Date: 1/26/88 Time: 2:30
Call From/To: Bill Porter
Title: Lieutenant
Company: City of Albany, Fire Dept.
Location: Albany
Phone No.: 967-4302
RE: Transformer salvaging at
site

cc: _____

Summary of Call:

- ① Mr Porter purchased parts from the company in late 60s. He went to this company for 2-3 years. During that time transformers were salvaged for copper wire and for oil. Probably went on for several years.
- ② Walked into salvage/working yard. Area for salvaging was about half way back in the yard along the north side of the property. The transformers were stacked on a pallet. Never a large accumulation of transformers at one time.
- ③ Obtained transformers from power company when available. Salvaged for copper and oil in engines and for lubrication. Owner thought this was best oil available for his needs.
- ④ Oil in salvaging area spilled on ground so that oil accumulated on ground. "You didn't want to walk in that area because of the oil". Mr. Porter didn't know whether the accumulation was from spillage or from pouring. If the oil wasn't poured on the ground, he didn't know where the oil was disposed of.

DEQ/WQ-101-2/86

By: D. Bailey

- ⑤ Mr. Porter did not remember if any solvents were used on site

FILE: Highway
Salvage

Department of Environmental Quality
Remedial Action SECTION
Phone Memo

Date: 12/29 Time: 1:50
Call From/To: Tenneco, Inc.
Title: Environmental Technician
Company: Albany
Location: Albany
Phone No.: 967-4300 x388
RE: Remedial Action at Albany

cc: _____

Summary of Call:

- Call to
1. Knox Butte Rd - Tenneco St - Albany
back to Knox Butte
@ Southern Highway - off to Midland Farm
@ Albany airport - 10' crossing
- Study done by Dept of Health & Welfare
Albany - 1/2 to 1 mile from Tenneco
send as possible major source of pollution
- Albany - 1/2 to 1 mile from Tenneco
Albany - 1/2 to 1 mile from Tenneco
- Albany - 1/2 to 1 mile from Tenneco
Albany - 1/2 to 1 mile from Tenneco
- Albany - 1/2 to 1 mile from Tenneco
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- Albany - 1/2 to 1 mile from Tenneco
Albany - 1/2 to 1 mile from Tenneco

Department of Environmental Quality

Remedial Action SECTION

Phone Memo

FILE: Magnum
Salvage/
Horizon
Vehicles

Date: 1/21/88 Time: 2:30
Call From/To: Floyd Zumwalt
Title: Owner
Company: Magnum Salvage
Location: Albany
Phone No.: 503-967-1098
RE: Property Ownership

cc: _____

Summary of Call:

Magnum Salvage/Horizon Vehicles created 4-5 months ago. Purchasing property from the Small Business Administration which had a loan on property. Roberta Hess, previous owner/operator defaulted on loan. She was doing salvaging at the site.

Salvaging has not been going on for about two years.

Salvaging has been going on at site for approximately 20 years until sometime within last two years.

Department of Environmental Quality
Remedial Action SECTION

Phone Memo

FILE: Magnum
Salvage /
Horizon
Vehicles

Date: 1/21/88 Time: 3:00
Call From/To: Jan Sisemore
Title: Loan Officer
Company: Small Business Administration
Location: Portland
Phone No.: 221-2905
RE: Loan on Property

cc: _____

Summary of Call:

① Information from Dunn and Bradstreet report

1947 - 1977 Burt Moss - business
owner/operator - Burt Auto wrecking
1977 - 1985 Howard Price owner/operator
A & P Auto Parts
Anderson and Price
Small Business loan to A & P Auto Parts
10/24/85 - ? Roberta Hess (& Howard Hess)
purchased property
not known whether salvaging done by
these owners
"Unknown Quantity" cannot be found

② Property has been sold on contract to
Floyd Zumwalt subject to completion
of foreclosure and any other liens on
property

FILE: Magnum
Salvage

Department of Environmental Quality
Remedial Action SECTION

Phone Memo

Date: 1/21/87 Time: 11:30
Call From/To: Joe Mengore
Title: _____
Company: City of Albany, Fire Dept.
Location: Albany
Phone No.: 967-4302
RE: Information submitted to DEP
on salvage operations

cc: _____

Summary of Call:

The individual who notified Tim Mackey about the site is Bill Porter, a lieutenant on C. Shift ~~at~~ working for the fire department. He worked at the subject site (facility) at some time when it was active (when Bert Moss was owner)

ATTACHMENT 7

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.766)

AUG 25 1987 115/3W-9
WATER RESOURCES DEPT

(1) OWNER: Bill Rogers Honda Well Number: _____
Name _____
Address 4120 Santiam Hwy.
City Albany State Ore. Zip _____

(2) TYPE OF WORK:
☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD
☐ Rotary Air ☐ Rotary Mud ☒ Cable
☐ Other _____

(4) PROPOSED USE:
☒ Domestic ☐ Community ☒ Industrial ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other Gr. wtr. heat pump

BORE HOLE CONSTRUCTION:
Special Construction approval Yes ☐ No ☒ Depth of Completed Well 147 ft.
Explosives used ☐ Yes ☒ No ☐ Type _____ Amount _____

HOLE	SEAL	Amount
meter From To	Material From To	sacks or pounds
10" 0' 65'	Port. cement 0' 65'	38 sacks
6" 65' 147'	benzobak - -	4 "

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☐ Other Grout pumped as 10" casing removed
Backfill placed from _____ ft. to _____ ft. Material _____
Gravel placed from _____ ft. to _____ ft. Size of gravel _____

(6) CASING/LINER:
Diameter From To Gauge Steel Plastic Welded Threaded
Casing: 6" 12' 133.4" 260 ☒ ☐ ☒ ☐
Liner: _____ ☐ ☐ ☐ ☐

location of shoe(s) _____
(7) PERFORATIONS/SCREENS:
☐ Perforations Method Pull back
☒ Screens Type Cook Material 304 St. Steel

From To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
32' 4" 133' 4"			5 1/4" w/rocker		<input type="checkbox"/>	<input type="checkbox"/>
33' 4" 138' 4"	80		5 1/4" Tele		<input type="checkbox"/>	<input type="checkbox"/>
38' 5" 147'			5 1/4" tele pipe		<input type="checkbox"/>	<input checked="" type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour

☒ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min Drawdown Drill stem at Time

50 22.5' _____ 4 hrs.

Temperature of water 52° Depth Artesian Flow Found _____

Was a water analysis done? ☒ Yes By whom Waterlab

Did any strata contain water not suitable for intended use? ☐ Too little

☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other _____

Depth of strata: _____

(9) LOCATION OF WELL by legal description:

County Linn Latitude _____ Longitude _____
Township 11S Nor S, Range 3W E or W, WM.
Section 9 1/4 _____ 1/4 _____
Tax Lot _____ Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) 4120 Santiam Hwy.

(10) STATIC WATER LEVEL:

6.5 ft. below land surface. Date 5-13-87
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

From	To	Estimated Flow Rate	SWL
8'	36'	20 GPM	5'
111'	124'	20 "	6.5'
128'	141'	50 "	6.5'

(12) WELL LOG:

Ground elevation _____

Material	From	To	SWL
Gravel fill	0'	1'	
Brown clay sand + gravel	1'	8'	
Brown sand + gravel silt/clay	8'	32'	5'
Water bearing	32'	36'	
Brown clay + gravel	36'	40'	
Light brown silty clay w/	40'	43'	
Some small gravel	43'	60'	
Lt. brown silty clay w/sand	60'	68'	
Lt. brown sand w/some clay	68'	74'	
binder	74'	76'	
Gray silty clay	76'	91'	
Gray silty sand w/some clay	91'	94'	
Small gravel, sand w/clay	94'	101'	
Fine black sand w/shall gravel	101'	111'	
Small-medium grav. w/fine-	111'	124'	6.5'
med. black sand	124'	128'	
Fine-med sand w/small grav	128'	141'	6.5'
Black sand, gravel, clay, comm. on	141'	147'	
Sm-med grav w/fine coarse			
black sand + some clay			
Sand-grav + clay - lighter			
Small-med grav. + sand - base			
Small-med sand + gravel w/clay			

Date started April 25, 1987 Completed May 26, 1987

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

WWC Number _____

Signed _____ Date _____

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 633

Signed Michael W. Waldrop Date June 21, 1987

STATE OF OREGON **RECEIVED**
WATER WELL REPORT MAR 10 1986
(as required by ORS 537.765)

PLEASE TYPE or PRINT IN INK

WATER RESOURCES DEPT

(for official use only)

(1) OWNER: SALEM, OREGON

Name (b) (6)
Address (b) (6)
City PORTLAND State OR

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL: (4) PROPOSED USE (check):

Rotary Air ☐ Driven ☐ Domestic ☐ Industrial ☐ Municipal ☒
Rotary Mud ☐ Dug ☐ Irrigation ☐ Thermal: ☐ Withdrawal ☐ ReInjection ☐
Cable ☒ Bored ☐ Other: ☐ Piezometric ☐ Grounding ☐ Test ☐

(5) CASING INSTALLED: Steel ☒ Threaded ☐ Plastic ☐
8" Diam. from +2 ft. to 136 ft. Gauge .250
" Diam. from ft. to ft. Gauge

LINER INSTALLED: Steel ☐ Threaded ☐ Plastic ☐
" Diam. from ft. to ft. Gauge

(6) PERFORATIONS: Perforated? ☒ Yes ☐ No
Size of perforations 3/16 in. by 8 in.
6.3 perforations from 121 ft. to 131 ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS: Well screen installed? ☐ Yes ☒ No
Manufacturer's Name
Type Model No.
Diam. Slot Size Set from ft. to ft.
Diam. Slot Size Set from ft. to ft.

(8) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? ☒ Yes ☐ No If yes, by whom? DRILLER
100 gal./min. with 42 ft. drawdown after 1 1/2 hrs.
150 58 6 1/2
Air test gal./min. with drill stem at ft. hrs.
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION: Special standards Yes ☐ No ☒
Well seal—Material used CEMENT GROUT
Well sealed from land surface to 23 ft.
Diameter of well bore to bottom of seal 12 in.
Diameter of well bore below seal 8 in.
Amount of sealing material 15 sacks ☒ pounds ☐
How was cement grout placed? PRESSURE GROUT AS 12" STARTER PIPE PULLED
Was pump installed? YES Type SUB HP 7 1/2 Depth 105 ft.
Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of Water? depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☒ No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL by legal description:

County LINN 1/4 1/4 of Section 9 of
Township 11 SOUTH Range 3 WEST WM.
(Township is North or South) (Range is East or West)
Tax Lot 500 Lot Block Subdivision

MAILING ADDRESS OF WELL (or nearest address)

BOB'S BLUE OX R.V. PARK
GOLD FISH FARM ROAD ALBANY OR

(11) WATER LEVEL of COMPLETED WELL:

Depth at which water was first found 120 ft.
Static level 5 ft. below land surface. Date 2-21-86
Artesian pressure lbs. per square inch. Date

(12) WELL LOG: Diameter of well below casing 8"
Depth drilled 155 ft. Depth of completed well 138 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
SHALE	0	1	
TOP SOIL	1	4	
CLAY-BROWN SILTY W/GRAVEL	4	44	
CLAY-GRAY W/GRIT	44	55	
CLAY-GRAY W/GRAVEL	55	59	
SAND GRAVEL W/SILTY GRAY CLAY	59	73	
SAND-FINE	73	77	
CLAY-BROWN W/GRIT	77	100	
CLAY-GRAY W/GRAVEL	100	109	
CLAY-GRAY W/GRIT	109	119	
SAND & GRAVEL (WATER BEARING)	119	131	5
CLAY-GRAY W/GRIT	131	155	

Date work started 2-24-86 /completed 2-26-86
Date well drilling machine moved off of well 2-27 1986

(unbonded) Water Well Constructor Certification (if applicable):

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Date , 19

(bonded) Water Well Constructor Certification:

Bond (number) Issued by: TRAVELER'S (Surety Company Name)
On behalf of NUGENT DRILLING CO. (type or print name of Water Well Constructor)

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief:

(Signed) Charles D. Nugent (Water Well Constructor)
(Dated) 2-27-86

WATER RESOURCES DEPT.

~~SALEM, OREGON~~

(1) OWNER:

Name CHURCH OF CHRIST
Address 2120 THREE LAKES RD S.E.
City ALBANY State ORE.

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary Air	<input type="checkbox"/>	Driven	<input type="checkbox"/>	Domestic	<input checked="" type="checkbox"/>	Industrial	<input type="checkbox"/>	Municipal	<input type="checkbox"/>
Rotary Mud	<input type="checkbox"/>	Dug	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>	Test Well	<input type="checkbox"/>	Other	<input type="checkbox"/>
(<input checked="" type="checkbox"/>	Bored	<input type="checkbox"/>	Thermal		Withdrawal	<input type="checkbox"/>	Reinjection	<input type="checkbox"/>

(4) PROPOSED USE (check):

Domestic	<input checked="" type="checkbox"/>	Industrial	<input type="checkbox"/>	Municipal	<input type="checkbox"/>
Irrigation	<input type="checkbox"/>	Test Well	<input type="checkbox"/>	Other	<input type="checkbox"/>
Thermal:		Withdrawal	<input type="checkbox"/>	Reinjection	<input type="checkbox"/>

(5) CASING INSTALLED:

(5) CASING INSTALLED: Steel ☒ Plastic ☐
Threaded ☐ Welded ☒
6" Diam. from +1 ft. to 56 ft. Gauge 230
" Diam. from ft. to ft. Gauge

LINER INSTALLED:

" Diam. from ft. to ft. Gauge

(6) PERFORATIONS:

(6) PERFORATIONS: Perforated? ☒ Yes ☐ No
Type of perforator used TORCH
Size of perforations 1/8 in. by 6 in.
25 perforations from 51 ft. to 55 ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:

(7) SCREENS: Well screen installed? ☐ Yes ☒ No

Manufacturer's Name

Type Model No.

Diam. Slot Size Set from ft. to ft.

Diam. Slot Size Set from ft. to ft.

(8) WELL TESTS:

(8) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☒ No If yes, by whom?

Well	gal./min. with	ft. drawdown after	hrs.
Air test	gal./min. with drill stem at	ft.	hrs.
Bailer test	30 gal./min. with	24 ft. drawdown after	1 hrs.
Artesian flow	g.p.m.		
Temperature of water	Depth artesian flow encountered ft.		

(9) CONSTRUCTION:

(9) CONSTRUCTION: Special standards: Yes ☐ No ☐

Well seal—Material used CEMENT GROUT

Well sealed from land surface to 26 ft.

Diameter of well bore to bottom of seal 10 in.

Diameter of well bore below seal 6 in.

Number of sacks of cement used in well seal 19 sacks

How was cement grout placed? PRESSURE GROUT

Was pump installed? Yes Type S410 HP 3/4 Depth 45' ft.
Was a drive shoe used? ☒ Yes ☐ No Plug _____ Size: location _____ ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of Water? _____ depth of strata _____
Method of sealing strata off _____
Was well gravel packed? ☐ Yes ☒ No Size of gravel: _____
Gravel placed from _____ ft. to _____ ft.

(10) LOCATION OF WELL:

County Lincoln Driller's well number DR-172
 1/4 Section 9 T. 11 R. 3W W.M.
 Tax Lot # 1109 Lot Blk Subdivision
 Address at well location: Sams

(11) WATER LEVEL: Completed well.

Depth at which water was first found 49' ft. below land surface. Date 10-22-61
 Static level 16' ft. below land surface. Date 10-22-61
 Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG:

(12) WELL LOG: Diameter of well below casing _____

Depth drilled 57 ft. Depth of completed well 56 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

[illegible]

Work started 10-15 1982 Completed 10-23 198
Date well drilling machine moved off of well 10-26 198

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] Charles D. Leggett Date 10-26, 1988
(Drilling Machine Operator)

Drilling Machine Operator's License No. 928

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name NUGENT Drilling Co. (Person, firm or corporation) (Type or print)
Address 36969 Back Hill Dr. KEBANOK
(Signed) Charles D. Nugent
(Water Well Contractor)
Contractor's License No. 664 Date 10-26 1988

FILE
MAY 23 1961

STATE OF OREGON
SALEM, OREGON WATER WELL REPORT

State Well No. 11/3W-9
State Permit No.

File Original and
First Copy with the
STATE ENGINEER,
SALEM, OREGON

(1) OWNER: (b) (6)
Name (b) (6)
Address (b) (6) *Alfing Street*

(2) LOCATION OF WELL:

County *11/11* Owner's number, if any—
(b) (6)
Bearing and distance from section or subdivision corner
(b) (6)

(3) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☒ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) TYPE OF WELL:

Rotary ☐ Driven ☐
Cable ☐ Jetted ☐
Dug ☒ Bored ☐

(6) CASING INSTALLED:

Threaded ☐ Welded ☒
8" Diam. from 0 ft. to 80 ft. Gage 250
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(7) PERFORATIONS:

Perforated? ☐ Yes ☐ No

Type of perforator used

SIZE of perforations	in. by	in.
perforations from	ft. to	ft.
perforations from	ft. to	ft.
perforations from	ft. to	ft.
perforations from	ft. to	ft.
perforations from	ft. to	ft.

(8) SCREENS:

Well screen installed ☐ Yes ☐ No

Manufacturer's Name
Type Model No.
Slot size Set from ft. to ft.
Slot size Set from ft. to ft.

(9) CONSTRUCTION:

Was well gravel packed? ☐ Yes ☐ No Size of gravel:
Gravel placed from ft. to ft.
Was a surface seal provided? ☐ Yes ☐ No To what depth? ft.
Material used in seal—
Did any strata contain unusable water? ☐ Yes ☐ No
Type of water? Depth of strata
Method of sealing strata off

(10) WATER LEVELS:

Static level 13 ft. below land surface Date
Artesian pressure lbs. per square inch Date

Log Accepted by:

[Signed] Date May 20, 1960
(Owner)

(11) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☐ No If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs.

Bailer test 60 gal./min. with 10 ft. drawdown after 1 hrs.

Artesian flow g.p.m. Date

Temperature of water Was a chemical analysis made? ☐ Yes ☐ No

(12) WELL LOG:

Diameter of well 8 inches.

Depth drilled 83 ft. Depth of completed well 83 ft.

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
<i>Dark yellow clay</i>	0	3
<i>Cemented sand & gravel</i>	3	17
<i>Blue clay</i>	17	61
<i>Black sand & gravel</i>	61	78
	78	83

Work started 19 Completed 19

(13) PUMP:

Manufacturer's Name

Type: H.P.

Well Driller's Statement:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME *BOB'S WELL DRILLING*
(Person, firm, or corporation) (Type or print)

Address *465 Wagon Wheel Dr. Salem*

Driller's well number

[Signed] *Robert E. White*
(Well Driller)

License No. 121 Date May 20, 1960

File Original and
First Copy with the
STATE ENGINEER,
SALEM, OREGON

WATER WELL REPORT

STATE OF OREGON

State Well No. 11/3W-9

State Permit No. _____

(1) OWNER:

Name (b) (6)

Address _____

(2) LOCATION OF WELL:

County Linn Owner's number, if any— #1

1/4 1/4 Section T. R. W.M.

Bearing and distance from section or subdivision corner

Legal Description on separate

(b) (6)

(3) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic ☒ Industrial ☐ Municipal ☐

Irrigation ☐ Test Well ☐ Other ☐

(5) TYPE OF WELL:

Rotary ☐ Driven ☐

Cable ☒ Jetted ☐

Dug ☐ Bored ☐

(6) CASING INSTALLED:

Threaded ☐ Welded ☒

6" Diam. from 1 ft. to 43 ft. Gage 1-1/2

" Diam. from _____ ft. to _____ ft. Gage _____

" Diam. from _____ ft. to _____ ft. Gage _____

(7) PERFORATIONS:

Perforated? ☐ Yes ☒ No

Type of perforator used _____

SIZE of perforations in. by in.

perforations from _____ ft. to _____ ft.

perforations from _____ ft. to _____ ft.

perforations from _____ ft. to _____ ft.

perforations from _____ ft. to _____ ft.

perforations from _____ ft. to _____ ft.

(8) SCREENS:

Well screen installed ☐ Yes ☒ No

Manufacturer's Name _____

Type _____ Model No. _____

Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

" Slot size _____ Set from _____ ft. to _____ ft.

(9) CONSTRUCTION:

Was well gravel packed? ☐ Yes ☒ No Size of gravel: _____

Gravel placed from _____ ft. to _____ ft.

Was a surface seal provided? ☐ Yes ☒ No To what depth? _____ ft.

Material used in seal—

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? _____ Depth of strata _____

Method of sealing strata off _____

(10) WATER LEVELS:

Static level 10 ft. below land surface Date May 20, 59

Artesian pressure _____ lbs. per square inch Date _____

Log Accr (b) (6)

[Signed] June 2, 1959

(b) (6)

(11) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☒ No If yes, by whom?

Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.

" " " " " "

" " " " " "

Bailer test 15 gal./min. with 23 ft. drawdown after 4 hrs.

Artesian flow _____ g.p.m. Date _____

Temperature of water _____ Was a chemical analysis made? ☐ Yes ☒ No

(12) WELL LOG:

Diameter of well 6 inches.

Depth drilled 44 ft. Depth of completed well 43 ft.

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
<u>Light brown sand</u>	<u>1</u>	<u>2</u>
<u>Light brown sand</u>	<u>2</u>	<u>15</u>
<u>Light brown sand</u>	<u>15</u>	<u>34</u>
<u>heavy black sand</u>	<u>34</u>	<u>40</u>
<u>and fine gravel</u>		
<u>fine gravel</u>	<u>40</u>	<u>42</u>
<u>Large river Run</u>		
<u>gravel</u>	<u>42</u>	<u>44</u>

Work started May 13 1959 Completed May 20 1959

(13) PUMP:

Manufacturer's Name _____

Type: _____ H.P. _____

Well Driller's Statement:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

VALLEY WELL DRILLERS

NAME 3040 Marion WA 8-7395

ALBANY, OREGON

Address _____

Driller's well number 111

[Signed] Edward O. Kuttie

(Well Driller)

License No. 753 Date May 23, 1959

WATER WELL REPORT
STATE OF OREGON

State Well No. 11/3W-9
State Permit No. _____

(1) OWNER:

Name (b) (6)

Address

ALBANY, OREGON

(2) LOCATION OF WELL:

County BINN Owner's number, if any—

(b) (6)

Bearing and distance from section or subdivision corner

Legal Disc on
section corner.

(b) (6)

(3) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic ☒ Industrial ☐ Municipal ☐

Irrigation ☐ Test Well ☐ Other ☐

(5) TYPE OF WELL:

Rotary ☐ Driven ☐

Cable ☒ Jetted ☐

Dug ☐ Bored ☐

(6) CASING INSTALLED:

Threaded ☐ Welded ☐

6 " Diam. from 1 ft. to 30 ft. Gage _____

" Diam. from _____ ft. to _____ ft. Gage _____

" Diam. from _____ ft. to _____ ft. Gage _____

(7) PERFORATIONS:

Perforated? ☐ Yes ☒ No

Type of perforator used

SIZE of perforations _____ in. by _____ in.

_____ perforations from _____ ft. to _____ ft.

_____ perforations from _____ ft. to _____ ft.

_____ perforations from _____ ft. to _____ ft.

_____ perforations from _____ ft. to _____ ft.

_____ perforations from _____ ft. to _____ ft.

(8) SCREENS:

Well screen installed ☐ Yes ☒ No

Manufacturer's Name

Type _____ Model No. _____

_____ Slot size _____ Set from _____ ft. to _____ ft.

_____ Slot size _____ Set from _____ ft. to _____ ft.

(9) CONSTRUCTION:

Was well gravel packed? ☒ Yes ☐ No Size of gravel: River

Gravel placed from 30 ft. to 32 ft.

Was a surface seal provided? ☐ Yes ☒ No To what depth? _____ ft.

Material used in seal—

Did any strata contain unusable water? ☒ Yes ☐ No

Type of water? SURFACE Depth of strata 15

Method of sealing strata off CASING

(10) WATER LEVELS:

Static level 4 ft. below land surface Date 4-14-59

Artesian pressure _____ lbs. per square inch Date _____

Log Accepted by (b) (6)

(b) (6)

[Signed] _____ Date 4-15 1959

(11) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☒ No If yes, by whom?

Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.

" " " " " "

" " " " " "

Bailer test 40 gal./min. with 5 ft. drawdown after 2 hrs.

Artesian flow _____ g.p.m. Date _____

Temperature of water _____ Was a chemical analysis made? ☐ Yes ☒ No

(12) WELL LOG:

Diameter of well 6 inches.

Depth drilled 32 ft. Depth of completed well 30 ft.

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
<u>Light BROWN TOP</u> <u>SOIL</u>	<u>1</u>	<u>4</u>
<u>Light BROWN clay</u> <u>and SAND</u>	<u>4</u>	<u>14</u>
<u>Light SAND AND</u> <u>GRAVEL</u>	<u>14</u>	<u>16</u>
<u>Light BROWN CLAY</u> <u>AND SAND</u>	<u>16</u>	<u>21</u>
<u>Heavy Black SAND</u>	<u>21</u>	<u>26</u>
<u>Light SAND & FINE</u> <u>GRAVEL</u>	<u>26</u>	<u>28</u>
<u>SAND & Light</u> <u>GRAVEL</u>	<u>28</u>	<u>32</u>

Work started 4-7 1959 Completed 4-14-59 19

(13) PUMP:

Manufacturer's Name

Type _____ H.P. _____

Well Driller's Statement:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

VALLEY WELL DRILLERS

NAME 3040 Marion W.A. #7395 (Type or print)

Address ALBANY, OREGON

Driller's well number 96

[Signed] Edward Butts
(Well Driller)

License No. 253 Date 4-15 1959

Legal, Div. of
Property

(b) (6)

(b) (6)

Linn County, Oregon and running thence

(b) (6)

(1) OWNER:

Name (b) (6)
Address (b) (6)
Albany, Oregon

(2) LOCATION OF WELL:

County Linn Owner's number, if any—
(b) (6)
Bearing and distance from section or subdivision corner

(3) TYPE OF WORK (check):

New well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
Abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) EQUIPMENT:

Rotary ☐
Cable ☒
Dug Well ☐

(6) CASING INSTALLED:

Threaded ☐ Welded ☒
FROM 0 ft. to 50 ft. 6" Diam. 17# Gage or Wall
Type and size of shoe or well ring Welded
Describe joint Welded with acetylene torch

If gravel packed

Diameter of Bore	from ft.	to ft.

(7) PERFORATIONS:

Type of perforator used Acetylene torch
SIZE of perforations 12 in., length, by 1/4 in.
FROM 38 ft. to 50 ft. 1 perf per foot 4 No. of rows

SCREENS:

Give Manufacturer's Name, Model No. and Size

(8) CONSTRUCTION:

Was a surface sanitary seal provided? ☐ Yes ☒ No To what depth ft.
Were any strata sealed against pollution? ☐ Yes ☒ No
If yes, note depth of strata
FROM ft. to ft.
METHOD OF SEALING

(9) WATER LEVELS:

Depth at which water was first found 48 ft.
Standing level before perforating ft.
Standing level after perforating 18 ft.

Log Accepted by:

[Signed] (b) (6) Dated 9/10, 1957

(10) WELL TESTS:

Was a pump test made? ☐ Yes ☒ No If yes, by whom?
Yield: gal./min. with ft. draw down after hrs.
" " " "
" " " "
Artesian flow g.p.m.
Shut-in pressure lbs. per square inch.
Packer test 35 g.p.m. with 20 ft. drawdown
Temperature of water Was a chemical analysis made? ☐ Yes ☒ No
Was electric log made of well? ☐ Yes ☒ No

(11) WELL LOG:

Diameter of well, 6.11 inches.
Total depth 50 ft. Depth of completed well 50 ft.
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.
0 ft. to 4 ft. Top Soil
4 " 22 " Sandy Clay
22 " 30 " Dirty Gravel & Clay
30 " 35 " Gravel
35 " 40 " Clay
40 " 45 " Gravel
45 " 50 " Sand & Gravel
" " "
" " "
" " "
" " "
" " "
" " "
" " "
" " "
" " "
" " "
" " "
" " "
" " "
" " "
" " "
" " "
" " "
" " "

Ground elevation at well site feet above mean sea level.
Work started 8-27 1957 Completed 8-29 1957

Well Driller's Statement:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Merle E. Warren, Well Drilling
(Person, firm, or corporation) (Typed or printed)

Address 1315 W. 15th Ave., Albany, Oregon

Driller's well number

[Signed] Merle Warren (Well Driller)

License No. 182 Dated 9/10, 1957

State Permit No. _____

License No. 32 Date July 11, 1967

(USE ADDITIONAL SHEETS IF NECESSARY)

Albany, Ore.

Bearing and distance from section or subdivision corner

19	24
----	----

(USE ADDITIONAL SHEETS IF NECESSARY)

1961

State Permit No. _____

License No. 32 Date 8-24 1961

Contractor's License No. 650 Date 11-28- 1971

The original and first copy
of this report are to be
filed with the

RECEIVED
WATER WELL REPORT
SEP 21 1972
STATE OF OREGON
STATE ENGINEER (Type or print)
SALEM OREGON (Do not write above this line)

STATE ENGINEER, SALEM, OREGON
within 30 days from the date
of well completion.

State Well No. 115/3W-9 cd

State Permit No. _____

(1) OWNER:

Name T & R Truck Service

Address P.O. Box 748, Albany, Oregon 97321

(2) TYPE OF WORK (check):

New Well ☐ Deepening ☒ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☒ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) CASING INSTALLED:

Threaded ☐ Welded ☒

8 Diam. from 83 ft. to 176 ft. Gage 250

 Diam. from ft. to ft. Gage

 Diam. from ft. to ft. Gage

(6) PERFORATIONS:

Perforated? ☒ Yes ☐ No.

Type of perforator used Mills Knife

Size of perforations 1/4 in. by 3 in.

52 perforations from 90 ft. to 117 ft.

6 perforations from 130 ft. to 133 ft.

26 perforations from 159 ft. to 172 ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name _____

Type _____ Model No. _____

Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

(8) WELL TESTS:

Drawdown is amount water level is
lowered below static level

Was a pump test made? ☐ Yes ☒ No If yes, by whom?

Well: _____ gal./min. with _____ ft. drawdown after _____ hrs.

Ball test 140 gal./min. with 33 ft. drawdown after 2 hrs.

Artesian flow _____ g.p.m.

Temperature of water 53 Depth artesian flow encountered _____ ft.

(9) CONSTRUCTION:

Well seal—Material used Cement

Well sealed from land surface to 20 ft.

Diameter of well bore to bottom of seal 12 in.

Diameter of well bore below seal 8 in.

Number of sacks of cement used in well seal 6 sacks

Number of sacks of bentonite used in well seal _____ sacks

Brand name of bentonite _____

Number of pounds of bentonite per 100 gallons
of water _____ lbs./100 gals.

Was a drive shoe used? ☐ Yes ☒ No Plugs _____ Size: location _____ ft.

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? _____ depth of strata _____

Method of sealing strata off _____

Was well gravel packed? ☐ Yes ☒ No Size of gravel: _____

Gravel placed from _____ ft. to _____ ft.

(10) LOCATION OF WELL:

County Linn

Driller's well number 1369720

SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 9 T. 11S R. 3W W.M.

Bearing and distance from section or subdivision corner _____

(11) WATER LEVEL: Completed well.

Depth at which water was first found Previous ft.

Static level 26 17 ft. below land surface. Date 9/12/72

Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG:

Diameter of well below casing 6"

Depth drilled 93 ft. Depth of completed well 176 ft.

Formation: Describe color, texture, grain size and structure of materials;
and show thickness and nature of each stratum and aquifer penetrated,
with at least one entry for each change of formation. Report each change in
position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
Previous drilling		<u>83</u>	<u>12</u>
Gravel & sand	<u>83</u>	<u>86</u>	
Gray sandy clay	<u>86</u>	<u>88</u>	
Gravel	<u>88</u>	<u>90</u>	
Gray sandy clay & gravel	<u>90</u>	<u>101</u>	
Gray clay	<u>101</u>	<u>108</u>	
Black sand	<u>108</u>	<u>115</u>	
Gravel	<u>115</u>	<u>118</u>	
Gray clay	<u>118</u>	<u>133</u>	
Clay & coarse gravel	<u>133</u>	<u>143</u>	
Green clay	<u>143</u>	<u>150</u>	
Sandy green clay	<u>150</u>	<u>155</u>	
Fine gravel & sand	<u>155</u>	<u>159</u>	
Fine gravel	<u>159</u>	<u>161</u>	
Coarse gravel	<u>161</u>	<u>162</u>	
Gray clay	<u>162</u>	<u>165</u>	
Fine gravel	<u>165</u>	<u>174</u>	
Gray clay	<u>174</u>	<u>176</u>	

Work started 9/7 19 72 Completed 9/12 19 72

Date well drilling machine moved off of well 9/12 19 72

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision.
Materials used and information reported above are true to my
best knowledge and belief.

[Signed] G. E. Richardson Date Sept 20, 1972
(Drilling Machine Operator)

Drilling Machine Operator's License No. 738

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is
true to the best of my knowledge and belief.

Name Schoen Electric & Pump
(Person, firm or corporation) (Type or print)

Address 626 W. Queen, Albany, Oregon 97321

[Signed] Larry E. Schoen
(Water Well Contractor)

Contractor's License No. 513 Date 9/20, 19 72

The original and first copy of this report are to be filed with the

WATER RESOURCES DEPARTMENT.
SALEM, OREGON 97310
within 30 days from the date
of well completion.

WATER WELL REPORT RECEIVED

STATE OF OREGON

(Please type or print)

FEB 22 1978

State Well No.

State Permit No.

(Do not write above this line)

SALEM, OREGON

(1) OWNER:

Name (b) (6)

Address (b) (6)

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(10) LOCATION OF WELL:

County

(b) (6)

Driller's well number

107

W.M.

Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found

7

ft.

Static level

2

ft. below land surface. Date

2/9/78

Artesian pressure

lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing

Depth drilled

30

ft. Depth of completed well

30

ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
BROWN SOIL	0	3	
BROWN SOIL / GRAVEL	3	12	
GRAVEL & BROWN SAND	12	30	

(5) CASING INSTALLED:

Threaded ☐ Welded ☒

6" Diam. from 0 ft. to 30 ft. Gage 6250

" Diam. from ft. to ft. Gage

" Diam. from ft. to ft. Gage

(6) PERFORATIONS:

Perforated? ☒ Yes ☐ No

Type of perforator used

Size of perforations 3/16 in. by 5 in.

28 perforations from 25 ft. to 29 ft.

perforations from ft. to ft.

perforations from ft. to ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name

Type Model No.

Diam. Slot size Set from ft. to ft.

Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☒ No If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs.

Ball test 20 gal./min. with 18 ft. drawdown after 1 hrs.

Artesian flow g.p.m.

Temperature of water 57° Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Well seal—Material used

Well sealed from land surface to 18 ft.

Diameter of well bore to bottom of seal 10 in.

Diameter of well bore below seal 6 in.

Number of sacks of cement used in well seal 5 sacks

How was cement grout placed?

Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? depth of strata

Method of sealing strata off

Was well gravel packed? ☐ Yes ☒ No Size of gravel:

Gravel placed from ft. to ft.

Work started 2/7/78 19 Completed 2/9/78 19

Date well drilling machine moved off of well 2/16/78 19

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Pat Kildon Date 2/11/78
(Drilling Machine Operator)

Drilling Machine Operator's License No. 898

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name Rooter Well Drilling
(Person, firm or corporation) (Type or print)

Address Rt. 1 Box 254, Alb

[Signed] Pat Kildon
(Water Well Contractor)

Contractor's License No. 615 Date 2/11/78 19

The original and first copy of this report are to be filed with the

WATER RESOURCES DEPARTMENT
SALEM, OREGON 97310
within 30 days from the date
of well completion.

WATER WELL REPORT

STATE OF OREGON

(Please type or print)

(Do not write above this line)

FEB 22 1978

State Well No.

State Permit No.

SALEM, OREGON

(1) OWNER:

Name (b) (6)

Address

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☒ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) CASING INSTALLED:

6" Diam. from 0 ft. to 30 ft. Gage 6250
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(6) PERFORATIONS:

Type of perforator used Touch Perforated? ☒ Yes ☐ No.

Size of perforations 3/16 in. by 5 in.
28 perforations from 25 ft. to 29 ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name Model No.
Type
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level
Was a pump test made? ☐ Yes ☒ No If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.

Ball test 20 gal./min. with 18 ft. drawdown after 1 hrs.

Artesian flow g.p.m.

Temperature of water 57° Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Well seal—Material used Cement
Well sealed from land surface to 18 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in. 5
Number of sacks of cement used in well seal 5 sacks
How was cement grout placed? Poured from barrel

Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? depth of strata

Method of sealing strata off

Was well gravel packed? ☐ Yes ☒ No Size of gravel:

Gravel placed from ft. to ft.

(10) LOCATION OF WELL:

County LINN Driller's well number 107
(b) (6) W.M.

Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found 7 ft.
Static level 2 ft. below land surface. Date 2/9/78
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing
Depth drilled 30 ft. Depth of completed well 30 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
BROWN SILT	0	3	
BROWN SILT & GRAVEL	3	12	
GRAVEL & BROWN SAND	12	30	

Work started 2/7/78 19 Completed 2/9/78 19

Date well drilling machine moved off of well 2/16/78 19

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Pat Kiddon Date 2/11/78
(Drilling Machine Operator)

Drilling Machine Operator's License No. 898

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name Rooder Well Drilling
(Person, firm or corporation)

Address Rt. 1 Box 956, B16
(Type or print)

[Signed] Pat Kiddon
(Water Well Contractor)

Contractor's License No. 615 Date 2/11/78 19

SP-4534-119

WATER WELL REPORT

STATE OF OREGON

State Well No. 1113W-9 K

State Permit No. _____

(1) OWNER:

Name (b) (6)

Address _____

(2) LOCATION OF WELL:

County (b) (6)

Bearing and distance from section or subdivision corner _____

W.M. _____

(11) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☒ Yes ☐ No If yes, by whom? _____

Yield: 9.2 gal./min. with 12 ft. drawdown after 2 hrs.

Ballor test gal./min. with _____ ft. drawdown after _____ hrs.

Artesian flow g.p.m. Date _____

Temperature of water 22 Was a chemical analysis made? ☐ Yes ☒ No

(12) WELL LOG:

Diameter of well 10 inches

Depth drilled 41 ft. Depth of completed well 41 ft.

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Subsidence clay	0	14
Gravelly clay	14	24
Sand & gravel	24	31
Clay	31	38
Pea gravel (water)	38	41

Work started 6-7 1962 Completed 6-8 1962

(13) PUMP:

Manufacturer's Name 2-2043-31

Type: jet H.P. 1 HP

Well Driller's Statement:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Joe Drilling Co. (Type or print)

Address 1113W-9 K

Driller's well number _____

[Signed] Bill Hammett (Well Driller)

License No. 22 Date 6-10 1962

TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐
If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) TYPE OF WELL:

Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(6) CASING INSTALLED:

Threaded ☐ Welded ☒

4 " Diam. from 1 ft. to 40 ft. Gage 2.52

" Diam. from _____ ft. to _____ ft. Gage _____

" Diam. from _____ ft. to _____ ft. Gage _____

(7) PERFORATIONS:

Perforated? ☒ Yes ☐ No

Type of perforator used torch

SIZE of perforations 1/8 in. by 1 in.

2-6 perforations from 37 ft. to 40 ft.

perforations from _____ ft. to _____ ft.

perforations from _____ ft. to _____ ft.

perforations from _____ ft. to _____ ft.

perforations from _____ ft. to _____ ft.

(8) SCREENS:

Well screen installed ☐ Yes ☐ No

Manufacturer's Name _____

Type _____ Model No. _____

Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

Diam. X Slot size X Set from X ft. to X ft.

CONSTRUCTION:

Was well gravel packed? ☐ Yes ☒ No Size of gravel: X

Gravel placed from X ft. to X ft.

Was a surface seal provided? ☒ Yes ☐ No To what depth? 18 ft.

Material used in seal Concrete

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? Min. Siff Depth of strata 38

Method of sealing strata off Sand & Clay Treated

(10) WATER LEVELS:

Static level 12 ft. below land surface Date 6-7-62

Artesian pressure _____ lbs. per square inch Date _____

Log Accepted by: _____

[Signed] (b) (6) Date 6/15/62

NAME OF CHURCH
(Please type or print)

State Permit No. _____

Contractor's License No. 32 Date 5-11, 1963

STATE ENGINEER
Salem, Oregon

Well Record

STATE WELL NO. 11/3N-9N
COUNTY Linn
APPLICATION NO. CR-3780

OWNER: (b) (6) MAILING ADDRESS: (b) (6)

LOCATION OF WELL: Owner's No. (b) (6) CITY AND STATE: Albany, Oregon

(b) (6) (b) (6)

Bearing and distance from section or subdivision

corner (b) (6)

Altitude at well (b) (6)

TYPE OF WELL: Drilled Date Constructed June, 1952

Depth drilled 42 feet Depth cased 42 feet

Section (b) (6)

CASING RECORD:

6 inch steel casing set to 42 feet

FINISH:

Slot perforations from 36 to 42 feet

AQUIFERS:

WATER LEVEL:

10 feet below surface

PUMPING EQUIPMENT: Type Sears Roebuck jet H.P. 1 1/2
Capacity 60 G.P.M.

WELL TESTS:

Drawdown ft. after hours G.P.M.

Drawdown ft. after hours G.P.M.

USE OF WATER Irrigation Temp. °F. , 19

SOURCE OF INFORMATION Well Registration Statement

DRILLER or DIGGER Clyde Burkhart

ADDITIONAL DATA:

Log Water Level Measurements Chemical Analysis Aquifer Test

REMARKS:

STATE ENGINEER
Salem, Oregon

Well Record

STATE WELL NO. 11/3W-9N
COUNTY Linn
APPLICATION NO. CR-3783

OWNER: (b) (6) MAILING ADDRESS: (b) (6)

CITY AND STATE: Albany, Oregon

LOCATION OF WELL: Owner's No. (b) (6)

Bearing and distance from section or subdivision corner (b) (6)

Altitude at well

TYPE OF WELL: Drilled Date Constructed 1950

Depth drilled 50 feet Depth cased 50 feet

Section (b) (6)

CASING RECORD:

6 inch steel casing set to 50 feet

FINISH:

Slot perforations from 20 to 22 feet and 46 to 50 feet

AQUIFERS:

WATER LEVEL:

PUMPING EQUIPMENT: Type Fairbanks Morse Jet H.P. 3
Capacity G.P.M.

WELL TESTS:

Drawdown ft. after hours G.P.M.

Drawdown ft. after hours G.P.M.

USE OF WATER Irrigation Temp. °F. 19

SOURCE OF INFORMATION Well Registration Statement

DRILLER or DIGGER Mr. Howell

ADDITIONAL DATA:

Log Water Level Measurements Chemical Analysis Aquifer Test

REMARKS:

WATER WELL REPORT

STATE OF OREGON
(Please type or print)

State Well No.

State Permit No. _____

(11) WELL TESTS:

Was a pump test made? ☒ Yes ☐ No If yes, by whom? Ace Drill
Yield: 400 gal./min. with 29 ft. drawdown after 60 Hrs

Yield: 400 gal./min. with 29 ft. drawdown after 60 Hrs. hrs.

Bailer test	gal./min. with	ft. drawdown after	hrs.
1	100	1.5	1
2	100	1.5	1
3	100	1.5	1
4	100	1.5	1
5	100	1.5	1
6	100	1.5	1
7	100	1.5	1
8	100	1.5	1
9	100	1.5	1
10	100	1.5	1
11	100	1.5	1
12	100	1.5	1
13	100	1.5	1
14	100	1.5	1
15	100	1.5	1
16	100	1.5	1
17	100	1.5	1
18	100	1.5	1
19	100	1.5	1
20	100	1.5	1
21	100	1.5	1
22	100	1.5	1
23	100	1.5	1
24	100	1.5	1
25	100	1.5	1
26	100	1.5	1
27	100	1.5	1
28	100	1.5	1
29	100	1.5	1
30	100	1.5	1
31	100	1.5	1
32	100	1.5	1
33	100	1.5	1
34	100	1.5	1
35	100	1.5	1
36	100	1.5	1
37	100	1.5	1
38	100	1.5	1
39	100	1.5	1
40	100	1.5	1
41	100	1.5	1
42	100	1.5	1
43	100	1.5	1
44	100	1.5	1
45	100	1.5	1
46	100	1.5	1
47	100	1.5	1
48	100	1.5	1
49	100	1.5	1
50	100	1.5	1
51	100	1.5	1
52	100	1.5	1
53	100	1.5	1
54	100	1.5	1
55	100	1.5	1
56	100	1.5	1
57	100	1.5	1
58	100	1.5	1
59	100	1.5	1
60	100	1.5	1
61	100	1.5	1
62	100	1.5	1
63	100	1.5	1
64	100	1.5	1
65	100	1.5	1
66	100	1.5	1
67	100	1.5	1
68	100	1.5	1
69	100	1.5	1
70	100	1.5	1
71	100	1.5	1
72	100	1.5	1
73	100	1.5	1
74	100	1.5	1
75	100	1.5	1
76	100	1.5	1
77	100	1.5	1
78	100	1.5	1
79	100	1.5	1
80	100	1.5	1
81	100	1.5	1
82	100	1.5	1
83	100	1.5	1
84	100	1.5	1
85	100	1.5	1
86	100	1.5	1
87	100	1.5	1
88	100	1.5	1
89	100	1.5	1
90	100	1.5	1
91	100	1.5	1
92	100	1.5	1
93	100	1.5	1
94	100	1.5	1
95	100	1.5	1
96	100	1.5	1
97	100	1.5	1
98	100	1.5	1
99	100	1.5	1
100	100	1.5	1

Artesian flow	g.p.m.	Date _____
---------------	--------	------------

Temperature of water 56 Was a chemical analysis made? ☐ Yes ☒ No

(12) WELL LOG:

Diameter of well below casing 8"

Depth drilled **115** ft. Depth of completed well **115** ft.

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

(5) TYPE OF WELL:

Domestic	<input checked="" type="checkbox"/>	Industrial	<input type="checkbox"/>	Municipal	<input type="checkbox"/>	Rotary	<input checked="" type="checkbox"/>	Driven	<input type="checkbox"/>
Cable	<input type="checkbox"/>					Cable	<input checked="" type="checkbox"/>	Settled	<input type="checkbox"/>
Irrigation	<input type="checkbox"/>	Test Well	<input type="checkbox"/>	Other	<input type="checkbox"/>	Dug	<input type="checkbox"/>	Bored	<input type="checkbox"/>

(6) CASING INSTALLED:

Threaded ☐ Welded ☒

8" " Diam. from 0 I' ft. to 103' ft. Gage 250
" Diam. from " ft. to " ft. Gage
" Diam. from " ft. to " ft. Gage

(7) PERFORATIONS:

Perforated? ☐ Yes ☒ No

Type of perforator used	Size of perforations	in.	by	in.
perforations from	ft. to			
perforations from	ft. to			
perforations from	ft. to			
perforations from	ft. to			
perforations from	ft. to			

(8) SCREENS:

Well screen installed ☐ Yes ☒ No

Manufacturer's Name _____

Model No. _____

Diam. Slot size Set from ft. to ft.

Diam. Slot size Set from ft. to ft.

(9) CONSTRUCTION:

Well seal—Material used in seal Concrete
Depth of seal 28 ft. Was a packer used?
Diameter of well bore to bottom of seal 20 in.
Were any loose strata cemented off? ☒ Yes ☐ No Depth 16 ft.
Was a drive shoe used? ☐ Yes ☒ No
Was well gravel packed? ☐ Yes ☒ No Size of gravel:
Gravel placed from _____ ft. to _____ ft.
Did any strata contain unusable water? ☒ Yes ☐ No
Type of water? River Mod Hd Depth of strata 112 ft.
Method of sealing strata off Casing

(10) WATER LEVELS:

Static level ~~44~~ # 16' ft. below land surface Date 3/ 7/ 63
Artesian pressure lbs. per square inch Date

(13) PUMP:

Manufacturer's Name _____

Type: _____ H.P. _____

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Ace Drilling Co. (Person, firm or corporation) (Type or print)

Address 838 East 3rd, Ave Albany Oregon

Drilling Machine Operator's License No. 5285

[Signed] Bill Hamilton

Contractor's License No. ~~88~~ Date 3/11, 1963

NOTICE TO WATER WELL CONTRACTOR

The original and first copy
of this report are to be
filed with the

STATE ENGINEER, SALEM, OREGON 97310
within 30 days from the date
of well completion.

WATER WELL REPORT

STATE OF OREGON
(Please type or print)

G-3651

State Well No. 11/3W-9R

State Permit No.

(1) OWNER:

(b) (6)

Name

Address

Albany Oregon

(2) LOCATION OF WELL:

County Linn

Driller's well number 22

(b) (6)

W.M.

Bearing and distance from section or subdivision corner

(b) (6)

(3) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

Abandonment, describe material and procedure in Item 12.

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☐Irrigation ☒ Test Well ☐ Other ☐

(5) TYPE OF WELL:

Rotary ☐ Driven ☐Cable ☒ Jetted ☐Dug ☐ Bored ☐

(6) CASING INSTALLED:

Threaded ☐ Welded ☒

10" Diam. from 112 in. ft. to 145 ft. Gage 250

" Diam. from " ft. to " ft. Gage

" Diam. from " ft. to " ft. Gage

(7) PERFORATIONS:

Perforated? ☒ Yes ☐ No

Type of perforator used Acetylene Cutting Torch

Size of perforations 1/2 in. by 8 in.

60 perforations from 63 ft. to 82 ft.

80 perforations from 126 ft. to 143 ft.

perforations from " ft. to " ft.

perforations from " ft. to " ft.

perforations from " ft. to " ft.

(8) SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name

Type Model No.

Slot size Set from " ft. to " ft.

Diam. Slot size Set from " ft. to " ft.

(9) CONSTRUCTION:

Well seal—Material used in seal Bentonite

Depth of seal 18 ft. Was a packer used? NO

Diameter of well bore to bottom of seal 14 in.

Were any loose strata cemented off? ☐ Yes ☒ No DepthWas a drive shoe used? ☒ Yes ☐ NoWas well gravel packed? ☐ Yes ☒ No Size of gravel:

Gravel placed from " ft. to " ft.

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? depth of strata

Method of sealing strata off

(10) WATER LEVELS:

Static level 11 ft. below land surface Date 5/14/66

Artesian pressure lbs. per square inch Date

(11) WELL TESTS:

Drawdown is amount water level is
lowered below static levelWas a pump test made? ☒ Yes ☐ No If yes, by whom?

Yield: 275 gal./min. with 63 ft. drawdown after 3 hrs.

" " " "

" " " "

Ballor test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m. Date

Temperature of water Was a chemical analysis made? ☐ Yes ☒ No

(12) WELL LOG:

Diameter of well below casing 10 inch.

Depth drilled 146 ft. Depth of completed well 146 ft.

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top Soil. BROWN	0	2
BROWN CLAY	2	17 1/2
CEMENT GRAVEL	17 1/2	47
BLUE CLAY	47	84
WATER BEARING SAND	84	105
SANDY BROWN CLAY	105	130
LARGE AND MEDIUM GRAVEL	130	146

Application No. G-3651
Permit No.

Work started 4/22/1966 Completed 5/7/1966

Date well drilling machine moved off of well 5/12/1966

(13) PUMP:

Manufacturer's Name

Type: H.P.

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is
true to the best of my knowledge and belief.

NAME FRANK Waggy - Well Drilling
(Person, firm or corporation) (Type or print)

Address 2435 Pine Lane Albany Oregon

Drilling Machine Operator's License No. 364

[Signed] Frank Waggy
(Water Well Contractor)

Contractor's License No. 423 Date 5/16/1966

$$11 = 13W - 10$$

$$\frac{100}{100} = \frac{100}{100}$$

(9) LOCATION OF WELL by legal description: _____
 County Leban Latitude (b) (6) Longitude (b) (6)
(b) (6)

Signed Bob Scheler WWC Number 51
Date 7-1-87

The original and first copy
of this report are to be
filed with the

STATE ENGINEER, SALEM, OREGON 97310
within 30 days from the date
of well completion.

WATER WELL REPORT

STATE OF OREGON MAR 9 1973

(Please type or print)

(Do not write above this line)

State Well No.

115/3W-10

STATE ENGINEER
SALEM, OREGON

State Permit No.

(1) OWNER:

Name (b) (6)

Address Albany, Ore.

97321

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☐
Cable ☒
Bored ☐

Driven ☐
Jetted ☐
Bored ☐

(4) PROPOSED USE (check):

Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) CASING INSTALLED:

Threaded ☐ Welded ☒

6" Diam. from + 1' ft. to 85' 1 1/2" ft. Gage 17#

" Diam. from " ft. to " ft. Gage

" Diam. from " ft. to " ft. Gage

(6) PERFORATIONS:

Perforated? ☒ Yes ☐ No.

Type of perforator used Acetylene Torch

Size of perforations 3/8 in. by 12 in.

36 perforations from 26 ft. to 85 ft.

perforations from " ft. to " ft.

perforations from " ft. to " ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name

Type Model No.

Diam. Slot size Set from " ft. to " ft.

Diam. Slot size Set from " ft. to " ft.

(8) WELL TESTS:

Drawdown is amount water level is
lowered below static level

Was a pump test made? ☐ Yes ☒ No If yes, by whom?

gal./min. with " ft. drawdown after " hrs.

Ball test 72 gal./min. with 6 ft. drawdown after 1 1/2 hrs.

Artesian flow g.p.m.

Temperature of water Depth artesian flow encountered " ft.

(9) CONSTRUCTION:

Well seal—Material used Bentonite

Well sealed from land surface to 18 ft.

Diameter of well bore to bottom of seal 10 in.

Diameter of well bore below seal 6 in.

Number of sacks of cement used in well seal " sacks

Number of sacks of bentonite used in well seal 8 sacks

Brand name of bentonite Oregon Bentonite

Number of pounds of bentonite per 100 gallons

of water " lbs./100 gals.

Was a drive shoe used? ☒ Yes ☐ No Plugs " Size: location " ft.

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? depth of strata

Method of sealing strata off

Was well gravel packed? ☐ Yes ☒ No Size of gravel:

Gravel placed from " ft. to " ft.

(10) LOCATION OF WELL:

County Tinn

Driller's well number

(b) (6)

Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found 28 ft.

Static level 4 ft. below land surface. Date 2-22-73

Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing

Depth drilled 85 ft. Depth of completed well 85 ft.

Formation: Describe color, texture, grain size and structure of materials;
and show thickness and nature of each stratum and aquifer penetrated,
with at least one entry for each change of formation. Report each change in
position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
Top Soil	0	5	
Clay & Gravel	5	22	
Dirty Sand & Gravel	22	28	
Clay & Gravel	28	36	
Tight Clay & Gravel	36	40	
Sandy Blue Clay	40	43	
Brown Clay	43	49	
Blue Clay	49	65	
Sandy Blue Clay	65	71	
Black Sand & Gravel	71	85	

Work started 2-19 19 73 Completed 2-22 1973

Date well drilling machine moved off of well 2-22 1973

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision.
Materials used and information reported above are true to my
best knowledge and belief.

[Signed] *Merle Warren* Date 2/22, 1973
(Drilling Machine Operator)

Drilling Machine Operator's License No. 510

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is
true to the best of my knowledge and belief.

Name Merle Warren Well Drilling
(Person, firm or corporation) (Type or print)

Address Rt. 1, Box 84, Tangent, Ore. 97389

[Signed] *Merle Warren*
(Water Well Contractor)

Contractor's License No. 182 Date 2/22, 1973

NOTICE TO WATER WELL CONTRACTOR

The original and first copy
of this report are to be
filed with the

STATE ENGINEER, SALEM, OREGON 97310
within 30 days from the date
of well completion.

WATER WELL REPORT

STATE OF OREGON

(Please type or print)

(Do not write above this line)

State Well No. 11/3w-10

State Permit No.

(1) OWNER:

Name Freeway Auto Washers
Address RT 1 Box 229 K Albany, Ore

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) CASING INSTALLED:

Threaded ☐ Welded ☒
Diam. from 0 ft. to 35 ft. Gage 280
Diam. from ft. to ft. Gage
Diam. from ft. to ft. Gage

(6) PERFORATIONS:

Perforated? ☒ Yes ☐ No.

Type of perforator used Torch

Size of perforations 1/4 in. by 12 in.
10 perforations from 28 ft. to 34 ft.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name

Type Model No.

Diam. Slot size Set from ft. to ft.

Diam. Slot size Set from ft. to ft.

(8) WATER LEVEL: Completed well.

Static level 12 ft. below land surface Date 10/20

Artesian pressure lbs. per square inch Date

(9) WELL TESTS:

Drawdown is amount water level is
lowered below static level

Was a pump test made? ☒ Yes ☐ No If yes, by whom?

Yield: 15 gal./min. with 20 ft. drawdown after 2 hrs.

Bailer test 15 gal./min. with 20 ft. drawdown after 1 hrs.

Artesian flow g.p.m. Date

Temperature of water Was a chemical analysis made? ☐ Yes ☐ No

(10) CONSTRUCTION:

Well seal—Material used Bentonite

Depth of seal 18 ft.

Diameter of well bore to bottom of seal 9 in.

Were any loose strata cemented off? ☐ Yes ☒ No Depth

Was a drive shoe used? ☒ Yes ☐ No

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? depth of strata

Method of sealing strata off

Was well gravel packed? ☐ Yes ☐ No Size of gravel:

Gravel placed from ft. to ft.

(11) LOCATION OF WELL:

County Linn Driller's well number
(b) (6)

Bearing and distance from section or subdivision corner

(12) WELL LOG:

Diameter of well below casing

Depth drilled 35 ft. Depth of completed well 35 ft.

Formation: Describe color, texture, grain size and structure of materials;
and show thickness and nature of each stratum and aquifer penetrated,
with at least one entry for each change of formation. Report each change
in position of Static Water Level as drilling proceeds. Note drilling rates.

MATERIAL	From	To	SWL
Top Soil	0	4	
Yellow Clay	4	11	
Clay, sand and gravel	11	27	
course sand and gravel	27	35	

Work started 10/17 1967 Completed 10/20 1967
Date well drilling machine moved off of well 10/20 1967

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

(Signed) John Trask Date 10/20, 1967
(Drilling Machine Operator)

Drilling Machine Operator's License No. 310

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME (Person, firm or corporation) (Type or print)

Address ALBANY, OREGON 97321

(Signed) E. J. Butte Date 12-3 1967
(Water Well Contractor)

Contractor's License No. 253 Date 12-3 1967

The original and first copy
of this report are to be
filed with the

WATER WELL REPORT

SEP 10 1970
STATE OF OREGON

STATE ENGINEER, SALEM, OREGON
within 30 days from the date
of well completion.

STATE ENGINEER (Please type or print)
SALEM, OREGON (Do not write above this line)

State Well No. 11/3W-10 40
State Permit No. _____

(1) OWNER:

(b) (6)
Name _____
Address Seaside, Oregon

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in item 12.

(3) TYPE OF WELL:

Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) CASING INSTALLED:

Threaded ☐ Welded ☒
6" Diam. from 0 ft. to 54 ft. Gage 1250
" Diam. from _____ ft. to _____ ft. Gage _____
" Diam. from _____ ft. to _____ ft. Gage _____

(6) PERFORATIONS:

Perforated? ☐ Yes ☒ No.

Type of perforator used _____

Size of perforations in. by in.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name _____
Type _____ Model No. _____
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

(8) WELL TESTS:

Drawdown is amount water level is
lowered below static level

Was a pump test made? ☐ Yes ☒ No If yes, by whom?

Yield: _____ gal./min. with _____ ft. drawdown after _____ hrs.

Bailer test 20 gal./min. with 20 ft. drawdown after 1 hrs.

Artesian flow _____ g.p.m.

Temperature of water 54 Depth artesian flow encountered _____ ft.

(9) CONSTRUCTION:

Well seal—Material used CEMENT + BENTONITE

Well sealed from land surface to 18 ft.

Diameter of well bore to bottom of seal 9 in.

Diameter of well bore below seal 6 in.

Number of sacks of cement used in well seal _____ sacks

Number of sacks of bentonite used in well seal 1 1/2 sacks

Brand name of bentonite NATIONAL

Number of pounds of bentonite per 100 gallons
of water _____ lbs./100 gals.

Was a drive shoe used? ☒ Yes ☐ No Plugs _____ Size: location _____ ft.

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? _____ depth of strata _____

Method of sealing strata off _____

Was well gravel packed? ☐ Yes ☒ No Size of gravel: _____

Gravel placed from _____ ft. to _____ ft.

(10) LOCATION OF WELL:

County LINN Driller's well number
(b) (6)

Bearing and distance from section or subdivision corner

(b) (6)

(11) WATER LEVEL: Completed well.

Depth at which water was first found 39' ft.

Static level 22 ft. below land surface. Date 8-29-70

Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG:

Diameter of well below casing 6

Depth drilled 62 ft. Depth of completed well 62 ft.

Formation: Describe color, texture, grain size and structure of materials;
and show thickness and nature of each stratum and aquifer penetrated,
with at least one entry for each change of formation. Report each change in
position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
SAND + GRAVEL	0	8	
CLAY SAND + GRAVEL	8	28	
CLAY + SAND TAN	28	42	
CLAY BLUE	42	52	
" FINE SAND	52	60	
SAND + GRAVEL	60	62	21

Work started 8-28 1970 Completed 8-29 1970

Date well drilling machine moved off of well 8-29 1970

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision.
Materials used and information reported above are true to my
best knowledge and belief.

[Signed] John M. Hoffman Date 9-9, 1970
(Drilling Machine Operator)

Drilling Machine Operator's License No. 91

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is
true to the best of my knowledge and belief.

Name John M. Hoffman (Type or print)

Address 523 Box 427 Seaside, Ore.

[Signed] John M. Hoffman (Water Well Contractor)

Contractor's License No. 266 Date 9-9, 1970

The original and first copy of this report are to be filed with the

WATER RESOURCES DEPARTMENT
SALEM, OREGON 97310
within 30 days from the date
of well completion.

RECEIVED

WATER WELL REPORT

STATE OF OREGON

AUG 17 1977 (Please type or print)

(Do not write above this line)

WATER RESOURCES DEPT.

State Well No. 115/3W-10 bc

State Permit No.

(1) OWNER: SALEM, OREGON

Name (b) (6)
Address (b) (6)

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☐
Cable ☒
Bored ☒

Driven ☐
Jetted ☐
Bored ☒

(4) PROPOSED USE (check):

Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) CASING INSTALLED:

6" Diam. from 0 ft. to 53 ft. Gage 250
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(6) PERFORATIONS:

Type of perforator used Touch Perforated? ☒ Yes ☐ No.

Size of perforations 3/16 in. by 5 in.
24 perforations from 48 ft. to 53 ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name

Type Model No.

Diam. Slot size Set from ft. to ft.

Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☒ No If yes, by whom?

gal./min. with ft. drawdown after hrs.

Bailer test 60 gal./min. with 18 ft. drawdown after 1 hrs.

Artesian flow g.p.m.

Temperature of water 52° Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Well seal—Material used Cement

Well sealed from land surface to 18 ft.

Diameter of well bore to bottom of seal 6 9 in.

Diameter of well bore below seal 6 in.

Number of sacks of cement used in well seal 3 sacks

How was cement grout placed? Poured from barrel

Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? depth of strata

Method of sealing strata off

Was well gravel packed? ☐ Yes ☒ No Size of gravel:

Gravel placed from ft. to ft.

(10) LOCATION OF WELL:

County TILLAMOOK Driller's well number 89
(b) (6) W.M.

Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found 22 ft.

Static level 7 ft. below land surface. Date 7/24/77

Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing

Depth drilled 53 ft. Depth of completed well 53 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
BROWN SOIL & GRAVEL	0	22	
BROWN SAND & GRAVEL	22	28	
GRAY CLAY	28	33	
BLK SAND	33	35	
GRAY CLAY	35	48	
BLK SAND & GRAVEL	48	53	
CLAY	53		

Work started 7/19/77 19 Completed 7/29/77 19

Date well drilling machine moved off of well 7/20/77

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Pat Riddon Date 7/21/77
(Drilling Machine Operator)

Drilling Machine Operator's License No. 898

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name Rippees Well Drilling
(Person, firm or corporation) (Type or print)

Address Rt 1 Box 256 Albany

[Signed] Pat Riddon
(Water Well Contractor)

Contractor's License No. 615 Date 7/21/77 19

(Do not write above this line)

State Permit No.

11s/3w-10bc

If abandonment, describe material and procedure in Item 12.

Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

" Diam. from _____ ft. to _____ ft. Gage _____

perforations from _____ ft. to _____ ft.

Diam. Slot size Set from ft. to ft.

Artesian flow _____ g.p.m.

perature of water 49° Depth artesian flow encountered _____ ft.

How was cement grout placed? hand mixed & placed

100-443887-1000

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

Contractor's License No. 513 Date 8/14, 1972

STATE ENGINEER
Salem, Oregon

Well Record

STATE WELL NO. 11/3w-10A(1)
COUNTY Linn
APPLICATION NO. GR-222

OWNER: (b) (6) MAILING ADDRESS: (b) (6)

LOCATION OF WELL: Owner's No. 1 CITY AND STATE: Albany, Oregon

(b) (6) V.M. (b) (6)

Bearing and distance from section or subdivision corner (b) (6)

Altitude at well 235 ft. Interpolated

TYPE OF WELL: drilled Date Constructed 3/10/48

Depth drilled 165 ft. Depth cased 165 ft.

Section (b) (6)

CASING RECORD: 12 inch casing set from 0 to 165 ft.

FINISH: 2 - 6 inch slit perforations every 10 ft. from 15 to 165 ft.

AQUIFERS: unknown

WATER LEVEL: 8 ft. below land surface

PUMPING EQUIPMENT: Type 4" Fairbanks Morse H.P. 15
Capacity 400 G.P.M.

WELL TESTS:
Drawdown 60 ft. after _____ hours pumping 340 G.P.M.
Drawdown _____ ft. after _____ hours _____ G.P.M.

USE OF WATER irrigation 29 acres Temp. _____ °F. _____, 19____

SOURCE OF INFORMATION Reg. St. GR-222

DRILLER or DIGGER Art Clinton; Independence, Oregon

ADDITIONAL DATA:

Log _____ Water Level Measurements _____ Chemical Analysis _____ Aquifer Test _____

REMARKS:

WATER RESOURCES DEPARTMENT.
SALEM, OREGON 97310
within 30 days from the date
of well completion.

JAN 24 1979 STATE OF OREGON

(Please type or print)
SOURCES DEPT.
(Do not write above this line)

State Well No. **11513w-106c**

State Permit No. _____

(1) OWNER:

Name **(b) (6)**
Address **(b) (6)**

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):

Domestic ☒ Industrial ☐ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) CASING INSTALLED:

Threaded ☐ Welded ☒
6" Diam. from 0 ft. to 53 ft. Gage 2.50
" Diam. from " ft. to " ft. Gage "
" Diam. from " ft. to " ft. Gage "

(6) PERFORATIONS:

Perforated? ☒ Yes ☐ No.
Type of perforator used **Torch**
Size of perforations 3/16 in. by 5 in.
24 perforations from 48 ft. to 53 ft.
perforations from " ft. to " ft.
perforations from " ft. to " ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☒ No
Manufacturer's Name _____
Type _____ Model No. _____
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level
Was a pump test made? ☐ Yes ☒ No If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
Bailer test 60 gal./min. with 18 ft. drawdown after 1 hrs.
Artesian flow g.p.m.

(9) CONSTRUCTION:

Well seal—Material used **Cement**
Well sealed from land surface to 18 ft.
Diameter of well bore to bottom of seal 9 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal 3 sacks
How was cement grout placed? **Poured from barrel**

Was a drive shoe used? ☒ Yes ☐ No Plugs _____ Size _____ location _____ ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water _____ depth of strata _____
Method of sealing strata off _____
Was well gravel packed? ☐ Yes ☒ No Size of gravel: _____
Gravel placed from _____ ft. to _____ ft.

(10) LOCATION OF WELL:

County **Linn** Driller's well number **89**
(b) (6) W.M.

Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found 22 ft.
Static level 7 ft. below land surface. Date 7/20/77
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing _____
Depth drilled 53 ft. Depth of completed well 53 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
Brown soil & gravel	0	22	
Brown sand & gravel	22	28	
gray clay	28	33	
blue sand	33	35	
gray clay	35	48	
gray sand & gravel	48	53	
clay	53	-	

Work started 7/19/77 19 Completed 7/20/77 19
Date well drilling machine moved off of well 7/20/77 19

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] **Pat Riddan** Date 7/21/77 19
(Drilling Machine Operator)

Drilling Machine Operator's License No. **898**

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name **Riddan's Well Drilling**
(Person, firm or corporation) (Type or print)

Address **RT 1 Box 256 H/62147**

[Signed] **Pat Riddan**
(Water Well Contractor)

Contractor's License No. **615** Date 7/21/77 19